

BOOK	Question Number	Answer	Question	Choice A	Choice B	Choice C	Choice D	Illustration
15	1	D	A fuel tank on a barge has been certified by a marine chemist as being "Safe for Men" and "Safe for fire." This condition may change if _____.	the ambient temperature changes	a product leaks into the certified tank	muck, sludge, or scale in the tank give off additional vapors	all of the above	
15	2	A	In the event of an exhaust duct fire, most dry chemical and carbon dioxide galley range fixed extinguishing systems are automatically activated through the action of a stainless steel cable, spring and a _____.	fusible link	stack switch	thermostat	pyrostat	
15	3	A	Which of the following statements is true concerning a Halon 1301 fixed extinguishing system?	The quantity of Halon supplied would be less than the quantity of CO2 for the same space protected.	CO2 gas is used to propel the Halon to the space on fire.	The Halon must be agitated occasionally to ensure that it doesn't cake up.	All of the above.	
15	4	B	A ballast tank is one-third full when additional ballast is added until it is two-thirds full. The increased amount of liquid in the tank will have the greatest influence on the _____.	free surface effect	transverse stability	virtual rise in the center of gravity	value of the moment to trim 1 inch (MT1)	
15	5	D	Coast Guard Regulations (46 CFR) require that lifejackets shall be _____.	provided for each person onboard	provided for all personnel on watch	readily accessible to persons in the engine room	all of the above	
15	6	C	Fuel oil tank vents are fitted with a corrosion resistant wire mesh screen to _____.	prevent dirt from entering the tank	dissipate fumes leaving the vent	prevent flames from entering the tank	prevent accidental overflow	
15	7	B	You are alone and administering CPR to a an adult victim. How many chest compressions and how many inflations should you administer in each sequence?	5 compressions, then 1 inflation	15 compressions, then 2 inflations	20 compressions, then 3 inflations	30 compressions, then 4 inflations	
15	8	B	Which of the listed fire extinguishing agents would be suitable for use on an oil fire, but dangerous on an electrical fire?	CO2	Water fog	Halon	Dry chemical	
15	9	D	The horizontal fore and aft movement of a vessel is called _____.	yaw	sway	heave	surge	
15	10	A	The most critical time for preventing an accidental oil spill during bunkering, is when the _____.	tanks are being topped off	fuel begins to come aboard	hoses are being blown down	hoses are being disconnected	
15	12	B	Where would you look to find out what your duties are during a fire?	Ship's articles	Station bill	Certificate of Inspection	U.S. Coast Guard Regulations	
15	13	B	A vessel which is subjected to "sagging" _____.	has its main deck under tensile stress	has its bottom plating under tensile stress	is supported on a wave whose crest is amidships	is said to be under a form of transverse bending	
15	14	B	Automatically closed fire dampers installed in the vessel's ventilation system are operated by the use of a _____.	remote operated valve	fusible link	CO2 system pressure switch	heat or smoke detector	
15	15	D	Which of the following conditions will allow for a work vest to be substituted for a lifejacket in the total count of the required lifesaving gear?	When it is approved by the Coast Guard	When working near or over the water	When stowed away from the ring buoys	A work vest may never be counted as a lifejacket	
15	16	D	What safety information can be found in the fire control plan that is posted or available in booklet form on your ship?	Location of fire doors	Location of the remote means of stopping fans	Particulars of the fire detecting system	All of the above.	
15	17	C	When administering only mouth-to-mouth resuscitation, you should continue the victim's ventilation rate at how many inflations per minute?	4	8	12	20	
15	18	A	Which of the listed classes of fires should be extinguished with a water fog?	Class A and B	Class A and C	Class B and C	Class A, B, and C	

15	19	B	The horizontal port, or starboard movement of a vessel is called _____.	yaw	sway	surge	heave	
15	20	B	If a cup of oil is spilled during fueling and causes a sheen upon the water it _____.	must be reported to the fire department	must be reported to the Coast Guard	must be reported to the harbormaster	need not be reported since the spill was less than 250 barrels	
15	21	B	When involved in fighting a fire aboard a ship with an aluminum superstructure, it is important to remember that aluminum structures exposed to the high heat _____.	generate poisonous fumes	are more susceptible to collapse than steel structures	are susceptible to spontaneous ignition	all of the above	
15	22	B	The fire protection provided for the propulsion motor and generator of a diesel electric drive vessel is usually a _____.	fixed foam extinguisher	fixed CO2 system	steam smothering system	carbon tetrachloride extinguishing system	
15	23	A	The zipper of an immersion suit should be lubricated with _____.	paraffin	oil	graphite	vegetable oil	
15	24	C	The blocking open or absence of fire dampers can contribute to _____.	the accumulation of explosive gases	faster cooling of the fire	the fire spreading by way of the ventilation system	fixed foam systems to be ineffective	
15	25	C	In accordance with Coast Guard Regulations, Coast Guard approved buoyant work vests _____.	should be stowed in engineering spaces in lieu of approved life preservers because they are less bulky and permit free movement in confined spaces	may be used as a substitute for approved life preservers during routine drills, but never during an emergency	should not be stowed where they could be confused with life jackets in an emergency	all of the above	
15	26	A	Prior to entering a cargo pumphoom, you should ensure that _____.	the forced ventilating system is operating	the cargo pumps are secured	no monocarbon gases are present	the oily water separator is de-energized	
15	27	A	When administering artificial respiration to an adult, the breathing cycle should be repeated about _____.	12 to 15 times per minute	18 to 20 times per minute	20 to 25 times per minute	as fast as possible	
15	28	C	The most common cooling agent used for fighting fires on tank vessels is _____.	carbon dioxide	flue gas	water	steam smothering	
15	29	C	Topping lifts and runners supporting flexible cargo hoses should be made fast to the _____.	capstan	gypsy head	cleats	manifold riser	
15	30	C	The Pollution Prevention Regulations (33 CFR) require that all oil spills in United States waters be reported immediately to the _____.	local port authority	Corps of Engineers	U.S. Coast Guard	state pollution board	
15	31	B	The purpose of the vessel inclining experiment is to _____.	determine the location of the metacenter	determine the lightweight center of gravity location	verify the hydrostatic data	verify data in the vessel's operating manual	
15	32	D	To safeguard the operator and other personnel working on or near a hoisting operation, which of the following precautions should be observed?	Keep a load on the hoist until all personnel are finished working.	Set the load on a movable dolly when transportation may be needed.	Have one man keep a hand on the load to steady it.	Insure that the lifting gear capacity is not exceeded.	
15	33	D	Which of the following statements describes one of the functions of the ballasting system?	To permit flooding of any fuel oil storage tank on any class of ship.	To use it as a secondary service system.	To store reserve feed or potable water for extended cruises.	To stabilize the ship by flooding certain designed tanks with seawater.	
15	34	A	A disadvantage of using CO2 for firefighting is that _____.	the CO2 does not cool the fire	the cylinders are regulated pressure vessels	they are not effective on class "B" fires	they are not effective on class "C" fires	
15	35	C	A MODU is required to carry an Oil Record Book, and must maintain the book on board for _____.	one year	two years	three years	four years	

15	36	B	Approved buoyant work vests may be carried aboard tank vessels and shall be worn by crew members _____.	when working near or over the water under unfavorable working conditions	under the supervision and control of designated ship's officers	as substitutes for the approved life preservers during routine drills, weather permitting, when a vessel is moored pierside	all of the above	
15	37	B	Artificial respiration to an adult should be administered _____.	4 to 6 times per minute	12 to 15 times per minute	20 to 30 times per minute	At least 30 times per minute	
15	38	C	Which of the firefighting agents listed is the least hazardous to personnel?	CO2	Steam	Water	Carbon tetrachloride	
15	39	B	The angular movement of a vessel about a horizontal line drawn from its bow to its stern is _____.	pitching	rolling	heaving	swaying	
15	40	B	To prevent oil from escaping into the sea when ballasting through the cargo piping system, you should FIRST _____.	open sea suction valves, then start the cargo pump	start the cargo pump, then open sea suction valves	open block valves, then start the cargo pump	open sluice valves, then start the cargo pump	
15	41	D	According to Coast Guard Regulations (46 CFR), all United States merchant vessels are required to have muster lists and are to be posted _____.	on the navigating bridge	in the engine room	in the crew accommodation spaces	all of the above	
15	42	D	When required to work where there may be explosive gases, you should use tools which are _____.	approved by the Coast Guard	high carbon steel	fixed with a ferrous cover	nonsparking	
15	43	B	The external flotation bladder on an immersion suit should be inflated _____.	before you enter the water	after you enter the water	after one hour in the water	after you notice that your suit is losing buoyancy	
15	44	C	The principle personnel hazard unique to Halon fire extinguishers is _____.	displacement of oxygen	skin irritation	inhaling toxic vapors produced when exposed directly to a flame for extended periods	eye irritation produced immediately after discharge from cylinder	
15	45	C	Where would you find a list of the lifesaving equipment onboard your supply boat?	Ship's articles	Station bill	Certificate of Inspection	U. S. Coast Guard Regulations	
15	46	B	A virtual rise in the center of gravity of a MODU may be caused by _____.	filling a partially filled tank	using an onboard crane to lift a freely swinging heavy object	emptying a partially filled tank	transferring pipe from the setback area to the pipe rack	
15	47	C	The rescuer can best provide an airtight seal during mouth-to-mouth ventilation by pinching the victim's nostrils and _____.	cupping a hand around the patient's mouth	keeping the head elevated	applying his mouth tightly over the victim's mouth	holding the jaw down firmly	
15	48	D	Why is it necessary to cool the bulkheads, decks, and overheads surrounding an involved compartment fire?	Cool the metal below its ignition temperature	Form a dense coating of smothering steam	Prevent oxygen from reaching the flames	Prevent the fire from spreading by heat conduction	
15	49	C	The vertical motion of a floating vessel is known as _____.	surge	sway	heave	pitch	
15	50	B	An acceptable method of dealing with accumulated oil found in the pump room bilges is to _____.	transfer the oil to the sea chest	pump the oil into the slop tanks	discharge the oil over the side on an outgoing tide	pump the oil into a clean ballast tank	
15	51	A	"Air gap" is the vertical distance between the bottom of the hull and the _____.	still water level	wave crest	wave crest plus the charted water depth and tidal corrections	wave crest plus the charted water depth, plus tidal correction and storm surge	
15	52	D	Which of the listed conditions could cause a dangerous reduction in oxygen in a shipboard compartment?	Fire	Rusting or the drying of paint	Decomposing organic material	All of the above conditions	

15	53	C	An immersion suit should be equipped with a/an _____.	air bottle for breathing	whistle and handheld flare	whistle, strobe light, and reflective tape	whistle, handheld flare, and sea dye marker	
15	54	B	Portable Halon extinguishers used on a class "B" fire should be directed _____.	at the top of the flames	at the base of the fire near the edge	in short, quick bursts	toward the upwind side of the fire	
15	55	D	The existence of liquids in partially full tanks or compartments of a MODU causes a virtual rise in the height of the _____.	metacenter	center of buoyancy	center of flotation	center of gravity	
15	56	A	A MODU is required to carry an Oil Record Book to log entries in the book regarding the _____.	discharge of ballast or cleaning water from fuel tanks	sounding levels of all fuel tanks on a daily basis	grade and specific gravity of all fuel oil carried	fuel consumption rates on a weekly basis	
15	57	D	When applying chest compressions on an adult victim during CPR, the sternum should be depressed about _____.	1/2 inch or less	1/2 to 1 inch	1 to 1 1/2 inches	1 1/2 to 2 inches	
15	58	D	Personnel who are moving or handling material aboard ship should NOT follow which of the listed practices?	Signaling that all personnel are clear before lifting or lowering material.	Examining material for sharp edges or protruding points before handling.	Closing, tagging, or securing valves that permit entrance of steam, water, or air into a fitting or other equipment.	Throwing materials from high places to the deck.	
15	59	C	Horizontal transverse motion of a vessel is known as _____.	pitch	surge	sway	heave	
15	60	D	As a precaution against oil spills when topping off fuel tanks, you should _____.	close the deck filling valve to reduce the pumping rate	close all tank vents to prevent overflow	fill the tank to the bottom of the expansion trunk	notify the shore pumping station to reduce the pumping rate as tanks near full capacity	
15	61	C	When taking soundings on a floating MODU, the tape should be lowered and brought back quickly to _____.	reduce the time the sounding tube is open	avoid creating a spark	lessen the effect of roll or pitch on the reading	lessen the effect of heave on the reading	
15	62	D	The regulations regarding Oil Record Books do not apply to MODUs that _____.	are on an international voyage	are on a voyage of more than 24 hours	have a valid International Oil Pollution Prevention Certificate	have a valid National Pollutant Discharge Elimination System permit	
15	63	A	Which of the following conditions represents the appropriate time for setting off distress flares and rockets?	Only when there is a chance of them being seen by rescue vessels.	At half-hour intervals.	At one hour intervals.	Immediately upon abandoning the vessel.	
15	64	D	Halon extinguishers used on a class "C" fire should be directed at the _____.	base of the equipment	top of the equipment	power source	source of the fire	
15	65	A	When taking tank soundings on a MODU, coating the tape with chalk helps to _____.	better identify the correct reading	show the depth of any water in an oil tank	make the tape roll easier	reduce possibility of sparks	
15	66	C	The signal to man emergency stations on MODUs is _____.	a 30 second on - 30 second off alternating signal	the continuous ringing of the general alarm signal	an intermittent ringing of the general alarm for not less than ten seconds	announced over PA system	
15	67	A	When administering chest compression during CPR, at what part of the victim's body should the pressure be applied?	Lower half of the sternum	Tip of the sternum	Top half of the sternum	Left chest over the heart	
15	68	C	A straight stream of water should be used to extinguish _____.	galley grease fires	fuel oil fires	burning bedding materials	a fire in the paint locker	
15	69	A	Rolling is the angular motion of the vessel about what axis?	Longitudinal	Transverse	Vertical	Centerline	

15	70	A	When completing the ballasting operation of a contaminated tank, which of the following problems must be guarded against?	Back flow of contaminated water	Loss of pump suction	Excessive tank pressure due to closed vents	Motor overload due to high discharge head	
15	71	A	The requirement to carry an Oil Record Book does not apply to a MODU that _____.	is not equipped to discharge overboard any oil or oily mixture	is on an international voyage to a country that is party to MARPOL	has an International Oil Pollution Prevention Certificate	has an oily water separator of sufficient capacity for the oil wastes generated	
15	72	B	A virtual rise in the center of gravity of a MODU may be caused by _____.	filling a partially filled tank	using fuel from a pressed fuel tank	emptying a partially filled tank	transferring pipe from the setback area to the pipe rack	
15	73	A	To release the davit cable of a davit launched liferaft, you must _____.	pull the release lanyard	pull the hydraulic release	push the release button	pull on the ratchet handle	
15	74	C	Dry chemical fire extinguishers may be effectively used on which of the listed classes of fires?	Class "A" only	Class "B" only	Class "B" and "C" only	Class "A" and "C" only	
15	75	B	When removing the cap from a sounding tube on a MODU, the sound of air escaping indicates _____.	the tank is full	the tank may be partially flooded	the tank level has dropped	the tank is completely flooded	
15	76	A	The station bill of a MODU must be signed by the _____.	person-in-charge	Coast Guard marine inspection officer	company safety director	entire crew	
15	77	A	Changing rescuers while carrying out artificial respiration should be done _____.	without losing the rhythm of respiration	only with the help of two other people	by not stopping the respiration for more than 5 minutes	at ten minute intervals	
15	78	B	Which of the listed types of fires should be extinguished with a straight stream of water?	Bilge	Mattress	Galley range	Switchboard	
15	79	B	Pitching is angular motion of the vessel about which axis?	Longitudinal	Transverse	Vertical	Centerline	
15	80	D	A segregated ballast system is a system where _____.	all ballast is processed through the oily water separator	ballast is taken on and discharged through a separate main deck riser	ballast and cargo tanks are separated by cofferdams	all ballast lines, tanks, and pumps are independent of those used for oil	
15	81	A	The symbol shown in the illustration used to represent displacement is _____.	1	2	3	4	See illustration number(s): SF-0022
15	82	D	When the height of the metacenter has the same value as the height of the center of gravity, the metacentric height is equal to _____.	height of the metacenter	height of the center of gravity	same as half the height of the metacenter	zero	
15	83	C	If a liferaft should capsize, _____.	climb onto the bottom	swim away from the raft	right the raft using the righting straps	inflate the righting bag	
15	84	A	When is it required for a dry chemical fire extinguisher to be recharged?	After each use	When the air temperature exceeds 90°F	Every six months	Every 12 months	
15	85	A	You are transferring fuel from a supply vessel to your MODU. If you close off one tank in the line of tanks being filled, the flow rate to the other open tanks on the same line will _____.	increase	decrease	stop	stabilize	
15	86	D	What information must be entered on the MODU station bill?	Names of all crew members.	Use and application of special equipment.	Listing of approved emergency equipment.	Duties and station of each person during emergencies.	
15	87	B	The most essential element in the administration of CPR is _____.	to have the proper equipment for the process	the speed of treatment	the administration of oxygen	the treatment for traumatic shock	
15	88	A	A solid stream of water might be useful in fighting a burning oil fire on deck when it is used _____.	to wash burning oil over the side	to provide cooling for the fire fighters	in conjunction with chemical foam	to cool the main deck	
15	89	C	Yawing is the angular motion of the vessel about what axis?	Longitudinal	Transverse	Vertical	Centerline	

15	90	A	The term "segregated ballast" is defined in the Pollution Prevention Regulations (33 CFR) as ballast water introduced into a/an _____.	tank that is completely separated from the cargo oil and fuel oil systems	fuel settling tank for segregation from lighter fluids	oily water separator for segregation	isolated tank for analysis because of its noxious properties	
15	91	D	Symbol #1, as shown in the illustration, refers to _____.	change of draft	centerline	angle of inclination	displacement	See illustration number(s): SF-0022
15	92	D	For a floating MODU, the center of buoyancy and the metacenter are in the line of action of the buoyant force _____.	only when there is positive stability	only when there is negative stability	only when there is neutral stability	at all times	
15	93	D	You should deploy the sea anchor from a liferaft to _____.	keep the liferaft from capsizing	navigate against the current	keep personnel from getting seasick	stay in the general location	
15	94	C	In addition to weighing the cartridge, what other routine maintenance is required for a cartridge-operated dry chemical extinguisher?	Weigh the powder in the canister.	Discharge small amount to see that it works.	Check the hose and nozzle for clogs.	Check the external pressure gage.	
15	95	C	If you observe any situation which presents a safety or pollution hazard during fuel transfer operations on a MODU, which of the listed actions should be taken first?	Wait for the person-in-charge to act.	Notify the ballast control operator.	Shutdown the transfer operations.	Sound the fire alarm.	
15	96	D	The signal for fire alarm on a MODU must be indicated _____.	at each alarm bell	at each alarm actuator	near all exits	on the station bill	
15	97	A	Before CPR is started on the victim, you should _____.	establish an open airway	treat any bleeding wounds	insure the victim is conscious	make the victim comfortable	
15	98	C	When entering a burning compartment and equipped with a fire hose and an all-purpose nozzle, you should first direct _____.	a straight stream into the center of the space	the high velocity fog into the center of the space	the high velocity fog at the overhead to absorb heat	the high velocity fog at the deck to cool it for entry	
15	99	D	Angular motion about the longitudinal axis of a vessel is known as _____.	pitch	surge	sway	roll	
15	100	A	Safety is dependent on orderliness and cleanliness. Order may be maintained by _____.	storing all items in an assigned place	storing all items in a common storage container except those ready-for-sea	tagging all items according to their age and then storing them together	disposing of worn-out items	
15	101	D	The symbol shown in the illustration and used as a reference from which the height of the center of gravity is measured, is item number _____.	5	4	3	2	See illustration number(s): SF-0022
15	102	A	Immediately after abandoning a vessel, lookouts should be posted aboard liferafts to look for _____.	survivors in the water	food and water	land	bad weather	
15	103	C	The fire extinguishing agent dispensed by the unit shown in the illustration, is produced by _____.	educting air through "D" and mixing it with water in chamber "E"	educting chemical foam through "D" and mixing it with water in chamber "E"	educting mechanical foam through "D" and mixing it with water and air in chamber "E"	educting air through "C", mechanical foam through "D", and mixing them with water in chamber "E"	See illustration number(s): SF-0020
15	104	B	Recharging a previously used cartridge-operated dry chemical fire extinguisher is accomplished by _____.	authorized fire equipment servicing personnel only	replacing the propellant cartridge and refilling it with powder	puncturing the cartridge seal after installation	recharging the cartridge and refilling it with powder	
15	105	B	The free surface effects of a partially full tank in a floating MODU decrease with the _____.	surface area of the tank	displacement volume	draft of the MODU	height of the tank above the keel	
15	106	D	A load line for a MODU is assigned by the _____.	Minerals Management Service	Department of Energy	Corps of Engineers	a recognized classification society approved by the Coast Guard	
15	107	B	When administering artificial respiration, it is of the utmost importance to _____.	use the mouth-to-mouth method	clear airways	use rhythmic pressure method	know all approved methods	

15	108	B	When entering a compartment which is on fire, _____.	you must wear rubber gloves	the flames should be beaten back from the door with water fog	a straight stream of water should be used to cool the door	a straight stream of water should be used to cool the fire fighters	
15	109	C	Heave is the motion of a vessel along the _____.	longitudinal axis	transverse axis	vertical axis	centerline axis	
15	110	A	Pollution Prevention Regulations (33 CFR) state that when a tank vessel is discharging cargo, each sea suction valve connected to the vessel's oil transfer, ballast, or cargo tank systems must be _____.	sealed or lashed closed	fitted with a blank flange	fitted with an anti-siphon device	lined up for immediate use	
15	111	D	The symbol labeled #2, as shown in the illustration, represents _____.	displacement	beam limit	bilge level	baseline	See illustration number(s): SF-0022
15	112	C	Once the daily ration of drinking water in a survival situation has been established, the drinking routine should include _____.	small sips at regular intervals during the day.	a complete daily ration at one time during the day.	one-half the daily ration twice during the day.	small sips only after sunset.	
15	113	A	Mechanical foam used for firefighting, is produced by _____.	mechanically mixing and agitating foam chemical, water, and air	a chemical reaction of foam components and air	gas bubbles liberated when the foam chemical contacts fire	chemical reaction of foam components and water	
15	114	A	There are two disadvantages to CO2 when used as a total flooding firefighting agent. One of these is the limited quantity available and the other is _____.	the lack of cooling effect on heated materials	it cannot be used in a dead ship situation without electrical power available to the CO2 pump	it breaks down under extreme heat to form poisonous gases	there is no effect on a class "A" fire even in an enclosed space	
15	115	A	According to the Coast Guard Pollution Prevention Regulations (33 CFR), a 299 gross ton uninspected motor towing vessel, not equipped with an oily water separator, is required to have how many outlets accessible from the weather deck to discharge oily bilge slops?	One	Two (port and starboard)	Three (port, starboard, and aft)	Two (fore and aft)	
15	116	A	The maximum draft to which a MODU can legally be submerged is indicated by the _____.	Load Line mark	Certificate of Inspection	Station Bill	Tonnage mark	
15	117	D	You are attempting to administer CPR to a victim. While blowing into the victim's mouth, it is apparent that no air is getting to the lungs. Which of the following actions should you take?	Blow harder to force the air past the tongue.	Raise the victim's head higher than his feet.	Press on the victim's lungs so that air pressure will blow out any obstruction.	Re-tip the head and try again.	
15	118	B	Why should passageway fires be fought from one end only?	This action will cause the passageway to become slippery and difficult for fire fighters to stand.	So that one hose team does not push the flames heat and smoke directly at the other hose team.	It is impossible for the fire main to handle two fully pressurized hoses.	So that the extinguishing water can be trapped at the end of the passageway.	
15	119	B	Horizontal fore or aft motion of a vessel while underway is known as _____.	pitch	surge	sway	roll	
15	120	B	According to Pollution Prevention Regulations (33 CFR), if a cargo hose shows a small leak in its fabric, you may transfer oil after _____.	the terminal foreman is notified	the hose is replaced	the hose leak is securely wrapped	a drip pan is placed under the leak	
15	121	B	Symbol #3, shown in the illustration, represents _____.	displacement	amidships	forward perpendicular	baseline	See illustration number(s): SF-0022
15	122	A	After abandoning a vessel, water consumed within the first 24 hours _____.	will pass through the body with very little being absorbed by the system	will help to prevent fatigue	will quench thirst for only two hours	helps to prevent seasickness	
15	123	D	A fire extinguishing product produced by first mixing a foam concentrate with water to produce a foam solution, then mixing the foam solution with air is termed _____.	light water	Halon 1301	chemical foam	mechanical foam	

15	124	C	CO2 cylinders equipped with pressure actuated discharge heads will discharge automatically when _____.	the discharge valve is open	the control box glass is broken	pressure from the control cylinders is initially detected	the control cylinders have been completely discharged	
15	125	C	Progressive flooding on a MODU is controlled by securing watertight boundaries and _____.	transferring drill water	dumping bulk materials	pumping out flooded compartments	evacuating the unit	
15	126	B	Keeping the draft of a MODU at, or below the load line mark, insures the unit will have adequate _____.	reserve ballast	reserve buoyancy	lightweight displacement	critical motion	
15	127	C	When two people are administering CPR to a victim, how many times per minute should the chest be compressed?	15	30	60	80	
15	128	C	To effectively and safely combat a passageway fire, _____.	two hose teams should attack the fire from opposite directions	the fire should be attacked from above if possible	the fire should be attacked from one direction only	water must not be used if the passageway is above the metacentric height	
15	129	A	Angular motion about the vertical axis of a vessel is known as _____.	yaw	surge	sway	roll	
15	130	D	If a leak in an oil hose coupling cannot be stopped by tightening the coupling bolts, you should _____.	notify the Coast Guard of a potential oil spill	reduce pumping pressure to reduce the leakage rate	spread absorbent material on deck beneath the leak	notify the terminal operator, then shutdown and repair the leak	
15	131	A	The symbol shown in the illustration and is used as the reference from which transverse measurements are made is _____.	5	4	3	1	See illustration number(s): SF-0022
15	132	B	In the first 24 hours after abandoning a vessel, water should be given only to personnel who are _____.	thirsty	sick or injured	wet	awake	
15	133	C	Mechanical foam used for firefighting is produced by mechanically mixing and agitating _____.	soda acid and water	dry chemical and water	foam chemical with air and water	bicarbonate soda with air and water	
15	134	B	Spaces protected by a fixed CO2 system must be equipped with an alarm which is to sound _____.	for the first 20 seconds CO2 is being released into the space	for at least 20 seconds prior to release of CO2	during the entire period that CO2 is being released	if all doors and ventilation are not secured	
15	135	A	What must be accurately determined to assess the potential for progressive flooding after a MODU has been damaged?	The integrity of the watertight boundaries.	The capacity of the water sprinkler system.	The operation of the machinery space bilge level alarms.	All of the above.	
15	136	B	Load line regulations are designed to insure that a MODU has adequate structural strength and sufficient _____.	lifesaving equipment	stability	mooring tension	riser tension	
15	137	B	The necessity for administering artificial respiration may be recognized by the victim's _____.	vomiting	blue color and lack of breathing	irregular breathing	unconscious condition	
15	138	C	After you have put water on a burning mattress, and the fire appears to have been extinguished, you should then _____.	dry the mattress in a warm area	make sure the fire is out with CO2	pull the mattress apart to ensure no fire remains	secure the mattress in a well ventilated area	
15	139	C	When a vessel is floating upright, the distance from the keel to the metacenter is called the _____.	metacentric differential	height of the baseline	height of the metacenter	righting arm	
15	140	B	If a leak in a fueling hose coupling cannot be stopped by tightening the coupling joint, you should _____.	reduce the pumping pressure to reduce the leakage rate	stop the fueling operation and correct the leak	spread absorbent material on deck beneath the leak in order to confine it	notify the local port authority of a potential oil spill	
15	141	C	Symbol #5 shown in the illustration, represents _____.	displacement	leverage center	centerline	counterflood limits	See illustration number(s): SF-0022



15	142	B	When using the rainwater collection tubes on a liferaft, the FIRST collection should be _____.	passed around so all can drink	poured overboard because of salt washed off the canopy	saved to be used at a later time	used to boil food	
15	143	C	The piece of equipment shown in the illustration is used in conjunction with a fire hose to produce which of the listed fire extinguishing agents?	Chemical foam	Low velocity fog	Mechanical foam	High velocity fog	See illustration number(s): SF-0020
15	144	C	A safety outlet is provided on the CO2 discharge piping to prevent _____.	overpressurization of the space being flooded	rupture of cylinder due to temperature increase	overpressurization of the CO2 discharge piping	flooding of a space where personnel are present	
15	145	D	Which type of hull damage on a floating MODU should be repaired first?	Damage below the waterline.	Damage to interior watertight boundaries.	Damage to or in the machinery rooms.	Damage at or just above the waterline.	
15	146	A	Which of the listed devices is required to be located on the discharge side of the pump in a fire main system?	Pressure gage	Strainer	Reduction valve	International shore connection	
15	147	D	Artificial respiration may be necessary in cases of _____.	drowning	electrocution	poisoning	All of the above	
15	148	B	Low velocity fog extinguishes a fire by _____.	smothering and washing out	smothering and cooling	cooling and washing out	none of the above	
15	149	C	In small angle stability, when external forces exist, the buoyant force is assumed to act vertically upwards through the center of buoyancy and through the _____.	center of gravity	center of flotation	metacenter	metacentric height	
15	150	A	An oceangoing ship of 350 gross tons, contracted for in January 1976, and not equipped with an oily water separator, all bilge slops may be retained _____.	onboard in the ship's bilges	in the forward peak tank	in the oil purifier reservoir	in a cofferdam	
15	151	B	The symbol shown in the illustration to represent the vertical plane midway between the fore and aft perpendiculars is _____.	2	3	4	5	See illustration number(s): SF-0022
15	152	C	Drinking salt water will _____.	be safe if mixed with fresh water	prevent seasickness	promote urine excretion	protect against heat cramps	
15	153	D	The firefighting equipment shown in the illustration is a/an _____.	"suicide" nozzle	all-purpose nozzle	fog applicator	mechanical foam nozzle	See illustration number(s): SF-0020
15	154	C	Carbon dioxide cylinders must be recharged when the cylinder charge weight is less than what percent of the stamped full weight charge?	80%	85%	90%	95%	
15	155	C	Repairing damage to the hull of a MODU at, or above the waterline, reduces the threat of _____.	free surface effects	capsizing the MODU	continued progressive flooding	wind overturning moments	
15	156	B	The discharge side of every fire pump must be provided with a _____.	gate valve	pressure gage	check valve	strainer	
15	157	C	After a person has been revived by artificial respiration, they should be _____.	walked around until he is back to normal	given several shots of whiskey	kept lying down and warm	allowed to do as he wishes	
15	158	B	A low velocity fog applicator is used in firefighting to _____.	apply large droplets of foam	cool and smother the fire	break up burning embers	extinguish hard to reach electrical fires	
15	159	A	"GM" cannot be used as an indicator of stability at all angles of inclination because _____.	"M" is not fixed at large angles	there is no "M" at large angles	"G" is not fixed at large angles	there is no "G" at large angles	
15	160	C	The most frequent incidents of tanker pollution occurring during tanker operations is _____.	due to collisions	routine discharge of oil during ballasting and tank crude oil washing	loading and discharging	due solely to groundings	
15	161	B	The symbol shown in the illustration and used to represent amidships, is indicated by number _____.	2	3	4	5	See illustration number(s): SF-0022
15	162	A	When personnel are lifted by a helicopter from an inflatable liferaft, the personnel on the raft should _____.	deflate the floor of the raft to reduce the danger of capsizing	inflate the floor of the raft to provide for additional stability	remove their lifejackets to prepare for the transfer	take in the sea anchor to prevent fouling of the rescue sling	

15	163	B	Which of the devices listed must be used in conjunction with the portable in-line foam proportioner to produce foam?	A plain or common fire hose nozzle	The mechanical foam nozzle	Any low velocity applicator	An all-purpose nozzle	
15	164	C	The passive safety device installed on each Halon fire extinguishing cylinder, to prevent its overpressurization is called a _____.	safety valve	relief valve	rupture disc	control head	
15	165	C	The jettisoning of topside weight from a MODU serves which of the purposes listed?	It returns the MODU to an even keel.	It reduces free surface effect.	It lowers the center of gravity.	It raises the center of gravity.	
15	166	A	Each fire pump on a MODU must have a pressure gage located _____.	at the pump discharge	at the manifold connection	at each fire station discharge	at the pump station	
15	167	D	If vomiting occurs during a resuscitation effort, the best immediate procedure to follow is _____.	ignore it and continue mouth-to-mouth ventilation	pause for a moment until the patient appears quiet again, then resume mouth-to-mouth ventilation	switch to mouth-to-mouth ventilation	turn the patient's body to the side, sweep out the mouth and resume CPR	
15	169	A	The horizontal distance between the vertical lines of action of gravity and the buoyant forces is called the _____.	righting arm	metacentric height	metacentric radius	height of the center of buoyancy	
15	170	C	In order for you to operate your vessel's crude oil wash system, the cargo tanks to be washed must be _____.	opened to the atmosphere for ventilation	gas free	inerted	full of cargo	
15	171	D	Oil Pollution Regulations (33 CFR) require any transfer or discharge of oil or oily mixtures to be recorded in the _____.	bridge log	Master's log	engine room log	oil record book	
15	172	D	When you are firing a pyrotechnic distress signal, it should be aimed _____.	straight overhead	at the vessel whose attention you want to attract	into the wind	at about 60 degrees above the horizon	
15	173	C	Oil Pollution Regulations (33 CFR), require any transfer, or discharge of oil, or oily mixtures be recorded in the _____.	Pollution Control Record	Bridge log	Oil Record book	Masters log	
15	174	C	The amount of Halon remaining in a fire extinguisher cylinder is determined by _____.	internal inspection	checking the quantity indicating gauge	weighing the cylinder	checking the tag	
15	175	D	The order of importance in addressing damage control on a MODU is _____.	control flooding, control fire, repair structural damage	restore vital services, control fire, control flooding	control fire, restore vital services, control flooding	control fire, control flooding, repair structural damage	
15	176	B	Where multiple fire pumps are installed, they may be used for other purposes, provided that one pump is _____.	on line and in operation at all times to the fire main	kept available for use on the fire main at all times	capable of being quickly connected to the fire main with a suitable pipe spool	rated at or above 125 psi	
15	177	C	In order to initiate CPR on a drowning victim, _____.	start chest compressions before the victim is removed from the water	drain water from the lungs before ventilating	begin mouth-to-mouth ventilations	do not tilt the head back since it may cause vomiting	
15	178	C	Which of the listed firefighting agents and associated applications provide the largest shielding effect for the fire fighter?	Straight stream of water	Light water and foam mixture	Low velocity water fog	Carbon dioxide interface	
15	179	B	A vessel should normally behave as if all of its weight is acting downward through the center of gravity and all of its support is acting upward through the _____.	keel	center of buoyancy	tipping center	amidships section	
15	180	C	The use of flexible hose pipes to connect the crude oil washing machines is permitted only on _____.	product tankers	crude oil tankers	combination OBO tankers	chemical tankers	

15	181	D	Which of the following is NOT a recommended safe practice?	Securing equipment against slipping or drifting.	Operating machinery at its recommended speed.	Repairing loose handles on tools before using.	Using tools for purposes for which they are not designed.	
15	182	D	AMVER is a system which provides _____.	satellite communications	navigational information	weather information	position reporting service	
15	183	D	The device shown in the illustration is a _____.	suicide nozzle	spanner hose pipe	fog applicator	mechanical foam nozzle	See illustration number(s): SF-0020
15	184	B	Inspection of a Halon fire extinguisher involves checking the hose, handle, nozzle, and _____.	each sight glass	weighing of the extinguisher	the service technicians report	the last date it was charged	
15	185	B	Control of flooding on a MODU should be addressed _____.	first	following control of a fire	following restoration of vital services	only if a threat exists	
15	186	B	On a MODU, a fire pump may be used for other purposes if _____.	the other services are run off a reducing station with pressure gage	a separate fire pump is available for use on the fire main	all other services are operated by a manifold near the pump	all of the above conditions are met	
15	187	A	Which of the following is a correct statement with respect to inserting an airway tube?	Only a trained person should attempt to insert an airway tube.	A size #2 airway tube is the correct size for an adult.	The airway tube will not damage the victim's throat.	Inserting the airway tube will prevent vomiting.	
15	188	D	One of the uses for low velocity fog is to _____.	help produce mechanical foam	break apart class "A" combustibles	sweep burning liquids overboard	act as a heat shield to protect the fire fighter	
15	189	D	The value of the maximum righting arm is dependent upon the position of the center of buoyancy and the _____.	longitudinal center of gravity	transverse center of gravity	downflooding angle	vertical location of the center of gravity	
15	190	A	Fire hydrant valves on a crude oil tanker shall be isolated from the crude oil washing system by _____.	spade blanks	face blanks	nonreturn valves	automatic closing valves	
15	191	D	If accidents are considered as an "unexpected contact", you will be able to perform a better job by observing which of the following practices?	Looking for unsafe practices.	Inspecting for unsafe conditions.	Analyzing jobs for safer methods.	Doing all of the above.	
15	192	A	The AMVER system for vessel in the Gulf of Mexico is administered by the _____.	U.S. Coast Guard	Minerals Management Service	Department of Energy	Corps of Engineers	
15	193	B	The piece of equipment shown in the illustration is used with a fire hose to produce _____.	high velocity fog	mechanical foam	low velocity fog	light water	See illustration number(s): SF-0020
15	194	D	After using a portable Halon fire extinguisher, it should be _____.	put back in service if more than 50% of the charge remains	repainted	hydrostatically tested before reuse	discarded	
15	195	A	Which of the following must be eliminated to prevent accidents?	Unsafe actions	Orderliness	Frequent inspections	Good work habit/practices	
15	196	A	Repair of vital machinery and services related to an emergency on a MODU should be accomplished (in sequence) _____.	after control of fire, flooding, and structural repairs	immediately before emergency is under control	after control of fire, but before control of flooding	after stability is restored	
15	197	B	Antiseptics are used principally to _____.	promote healing	prevent infection	reduce inflammation	increase blood circulation	
15	198	D	Low velocity water fog is very effective in _____.	removing toxic fumes from the air	controlling the movement of burning oil	removing combustible vapors from the air	shielding fire fighters from the fire	
15	199	A	A floating vessel will behave as if all of its weight is acting downward through the _____.	center of gravity	center of buoyancy	center of flotation	metacenter	
15	200	C	In a crude oil washing system, according to Coast Guard regulations (33 CFR), each cargo tank shall be fitted with a sufficient number of machines, such that those areas unwashed by direct impingement shall not exceed 10% for horizontal areas, and _____.	5% for vertical areas	10% for vertical areas	15% for vertical areas	20% for vertical areas	
15	201	A	Fire extinguishers designated by the Roman numerals I and II are _____.	portable units	semi-portable units	fixed systems	compact systems	

15	202	C	Combustible gas indicators measure the presence of combustible gases as a percentage of the _____.	flash point	upper explosive limit	lower explosive limit	fire point	
15	203	D	Which type of firefighting foam listed is supplied in both 3% and 6% concentrations?	Mechanical foam	Protein foam	Aqueous film forming foam	All of the above	
15	204	C	What information can be obtained from a marine chemist's certificate issued to a fishing vessel?	The number of fire extinguishers required onboard.	The quality of fuel in the vessel's tanks	The tanks which are safe to enter when the certificate was issued	The vessel's stability information	
15	205	D	To turn over a liferaft that is floating upside down, you should pull on the _____.	canopy	manropes	sea painter	righting lines	
15	206	C	Which of the following conditions can contribute to accidents?	Good housekeeping	Inspections	Unsafe conditions	Intelligent work habits	
15	207	B	A tourniquet should be used to control bleeding only _____.	with puncture wounds	when all other means have failed	when the victim is unconscious	to prevent bleeding from minor wounds	
15	208	D	Low velocity water fog is used in firefighting as a _____.	cooling agent	smothering agent	barrier against radiant heat	all of the above	
15	209	D	The water in which a vessel floats provides vertical upward support. The point through which this support is assumed to act is known as the center of _____.	effort	flotation	gravity	buoyancy	
15	210	B	Sufficient portable drive heads for a crude oil washing system must be provided in order to avoid one head being used during the tank washing procedure more than _____.	2 times	3 times	4 times	5 times	
15	211	C	Class "B" EPIRB's transmit on frequencies that are monitored by _____.	orbiting satellites in space	commercial radio stations	private, commercial, and military aircraft	commercial fishing vessels	
15	212	D	Which of the following procedures is the generally accepted method of determining whether the atmosphere within a cargo tank is over rich, explosive, or too lean to support combustion?	Use the open flame test on a small sample that has been taken from the tank.	Send a gas sample ashore for laboratory analysis.	Enter the tank with a teledyne oxygen analyzer.	Use an explosimeter.	
15	213	D	Which of the firefighting foams listed would require the mechanical mixing of air and foam concentrate?	Protein foam	Synthetic and alcohol foams	Aqueous film forming foam (AFFF)	All of the above	
15	214	B	If a ship is supported on the crest of a wave amidships, the vessel is subjected to _____.	pitch poling	hogging stresses	sagging stresses	yawing stresses	
15	215	A	If you have to abandon ship, and enter a liferaft, your main course of action should be to _____.	remain in the vicinity of the sinking vessel	head for the closest land	head for the closest sea-lanes	get a majority opinion	
15	217	D	A seaman has sustained a small, gaping laceration of the arm requiring sutures to close if medical facilities were available. Which of the following remedies can be done to temporarily close the wound?	Wrap a tight bandage around the wound.	Gently close the wound and while holding it closed apply a compression bandage.	Use temporary stitches of sail twine.	Apply butterfly strips and cover with a sterile dressing.	
15	218	D	The master or person in charge of a MODU must record the date of each test of emergency lighting systems, power systems, the condition of each and the performance of the equipment _____.	on the Certificate of Inspection	on the station bill	in the Operations Manual	in the official log	
15	219	D	In the absence of external forces, the center of gravity of a floating vessel is located directly above the _____.	metacenter	amidships	center of flotation	geometric center of the displaced volume	

15	220	B	To avoid excessive electrostatic effect in the crude oil washing process, due to the presence of water in the crude oil washing fluid, the contents of any tank to be used as a source of crude oil for washing must first reduce a portion of the tank contents by a vertical height equal to _____.	one-half meter	one meter	one and one-half meters	two meters	
15	221	B	A fuel/air mixture below the lower explosive limit is too _____.	rich to burn	lean to burn	cool to burn	dense to burn	
15	222	A	No outlet on a fire hydrant may point above the horizontal, in order to _____.	avoid kinking the hose	avoid personal injury during connection	make connecting easier	prevent spray on electrical equipment	
15	223	C	Aqueous film forming firefighting foam is also known as _____.	chemical foam	high-expansion foam	mechanical foam	all of the above	
15	224	B	A vessel which is subjected to "hogging" _____.	has its main deck under compressive stress	has its main deck plating under tensile stress	has its bottom plate under tensile stress	has its bottom plating under ductile stress	
15	225	C	The sea painter of an inflatable liferaft should be _____.	free running on deck	faked out next to the case	secured to a permanent object on deck via a weak link	stowed near the raft	
15	226	C	Which of the listed conditions can be considered as the single greatest cause of accidents?	Speed	Excessive knowledge or skill	Human error	Excitement	
15	227	B	A continual change in the list, or trim of any floating MODU indicates _____.	negative "GM"	progressive flooding	structural failure	an immediate need to counterflood	
15	228	B	When water fog is used as an extinguishing agent, the fire is extinguished principally by the _____.	isolation of the fuel	absorption of heat	displacement of gases of combustion	extinguishment of incipient smoldering	
15	229	C	A person reports to you with a fishhook in their thumb. The accepted procedure for removing it should be to _____.	pull it out with pliers	cut the skin from around the hook	push the barb through, cut it off, and then remove the hook	have a surgeon remove it	
15	230	B	Water ballast placed in a tank that has been crude oil washed, but not water rinsed, shall be regarded as _____.	clean ballast	dirty ballast	segregated ballast	crude oil	
15	231	A	At all angles of inclination the metacenter is located _____.	vertically above the center of buoyancy	vertically above the center of gravity	at the intersection of the upright vertical centerline and the line of action of the buoyant force	geometric center of the underwater volume	
15	232	D	The fire hydrant outlet may be positioned from the horizontal to any position pointing _____.	45° upward	vertically upward	90° upward	vertically downward	
15	233	B	To prevent oily rags from spontaneously igniting they should be _____.	kept in nonmetal containers	discarded as soon as possible	cleaned thoroughly for reuse	kept in the paint locker	
15	234	D	A vessel is subjected to "hogging" when it _____.	has its main deck under compressive stress	has its bottom plating under tensile stress	is supported on a wave whose crests are at the bow and stern	is supported on a wave whose crest is amidships	
15	235	C	Which of the actions listed and instituted on your part will have the greatest lasting effect on the crew with respect to safety?	Posting posters illustrating practices	Showing video tapes of actual accidents	Incorporating safety practices in daily routine	Publishing comprehensive safety rules	
15	236	C	According to Coast Guard Regulations (CFR 33), all ships are required to prepare, submit, and maintain a(an) _____.	synthetic plastic discharge plan	oil discharge plan	shipboard oil pollution emergency plan	vapor recovery procedures plan	
15	237	B	A person has suffered a laceration of the arm. Severe bleeding has been controlled by using a sterile dressing and direct pressure. Which of the following actions should be taken next?	Apply a tourniquet to prevent the bleeding from restarting.	Apply a pressure bandage over the dressing.	Remove any small foreign matter and apply antiseptic.	Administer fluids to assist the body in replacing the lost blood.	

15	238	A	Water fog is an effective fire extinguishing agent because it _____.	has a great cooling ability	will completely remove toxic fumes from the air	will completely remove combustible vapors from the air	does not leave a harmful residue on electrical machinery	
15	239	A	With regards to the metacentric height, which of the following statements is true?	It is used to indicate the quality of initial stability.	It is located below the center of buoyancy.	It is measured vertically above the center of buoyancy.	Its determination is the objective of the inclining experiment.	
15	240	D	At which of the listed tank locations should you obtain oxygen content readings prior to tank washing?	At the hatch coaming and tank bottom.	At the hatch coaming and middle of the tank.	At the middle and bottom of the tank.	At the center of the ullage and one meter below deck.	
15	241	D	When a floating MODU inclines to an angle slightly greater than the angle of loll, it will _____.	capsize	incline further	flop to the other side	return to the angle of loll	
15	242	B	Paints and solvents used aboard a vessel should be _____.	stowed safely at the work site until work is completed	returned to the paint locker after each use	covered with a fine mesh screen to protect from ignition sources	continuously kept in closed containers at all times	
15	243	C	What information can be obtained from a marine chemist's certificate issued to a fishing vessel?	The number of fire extinguishers required onboard.	The quality of fuel in the vessel's tanks	The tanks which were safe to enter when the certificate was issued	The vessel's stability information	
15	244	B	The primary function of an automatic sprinkler system is to _____.	instantaneously extinguish the fire which triggered it	limit the spread of the fire and control the amount of heat produced	protect people in the areas which have had sprinkler heads installed	alert the crew to the fire	
15	245	D	Coast Guard Regulations (46 CFR) require inflatable liferafts to be equipped with _____.	a first aid kit	an instruction manual	a sea anchor	all of the above	
15	246	C	The best information on the nature and extent of damage on a MODU is obtained from _____.	alarms and monitoring devices	the toolpusher	personnel at the scene of the damage	person-in-charge of the affected spaces	
15	247	A	In all but the most severe cases, bleeding from a wound should be controlled by _____.	applying direct pressure	submerging the wound in lukewarm water	cooling the wound with ice	applying a tourniquet	
15	248	A	Which of the following fire extinguishing agents has the greatest capacity for heat absorption?	Water fog	Dry chemical	Chemical foam	Carbon dioxide	
15	249	A	Initial stability refers to the vessel's stability _____.	at small angles of inclination	when loaded with minimum deck load	when at transit draft	when GZ is zero	
15	250	C	The term "arrival ballast" refers to _____.	brackish water ballast	dirty ballast	clean ballast	any form of sea water ballast	
15	251	B	The volume of a floating MODU above the waterline that can be made watertight is its _____.	displacement volume	reserve buoyancy	gross tonnage	net tonnage	
15	252	C	Damage stability of a MODU is the stability _____.	which exists when the wind speed is less than 50 knots	before collision	after flooding	at survival draft	
15	253	B	Good housekeeping on a vessel prevents fires by _____.	allowing better access in an emergency	eliminating potential fuel sources	eliminating trip hazards	improving personnel qualifications	
15	254	A	Overhauling a fire in the living quarters on a vessel must include _____.	opening dead spaces to check for fire or lingering sources of heat	evacuation of the vessel	immediately sounding the "all clear" signal	operation of the emergency generator	
15	255	B	Which of the following must be carried out in order to launch and inflate an inflatable liferaft?	Pull on the hydrostatic release, pull on the sea painter.	Push on the hydrostatic release, pull on the sea painter.	Push on the hydrostatic release, push on the sea painter.	Pull on the hydrostatic release, push on the sea painter.	

15	256	B	When fire pumps are used for purposes other than firefighting service, each pipe connection to the other service (except for branch lines used for deck washing) must have a _____.	check valve installed in the line	shut off valve at a manifold near the pump	quick disconnect union within ten feet of the pump	regulator in the line set at 125 psi	
15	257	A	Bleeding from a vein may ordinarily be controlled by _____.	applying direct pressure to the wound	heavy application of a disinfectant	pouring ice water directly onto the wound	pinching the wound closed	
15	258	D	A definite advantage in the use of water as a fire extinguishing agent is its ability to _____.	alternate expansion and contraction as water in liquid state becomes vapor	absorb smoke and gases as water is converted from liquid to vapor	rapidly contract as water is converted from a liquid to a vapor	vaporize and rapidly expand as water absorbs heat	
15	259	A	Which of the listed initials is used to represent the indicator of initial stability?	GM	KG	KM	GZ	
15	260	B	Which of the documents listed will describe lifesaving equipment located aboard your vessel?	Station bill	Certificate of Inspection	Forecastle card	Clearance papers	
15	261	D	The maximum draft to which a mobile offshore drilling unit may be safely loaded is called _____.	mean draft	calculated draft	deep draft	load line draft	
15	262	D	The stability existing after the unintentional flooding of a compartment on a MODU is called _____.	intact stability	initial stability	immersion stability	damage stability	
15	263	B	According to Coast Guard regulations (CFR 33), the shipboard oil pollution emergency plan must include _____.	all information ordinarily provided in the oil record book	an explanation and purpose of this plan	a one-line schematic of the plan to be implemented	the operating instructions for any and all oily-water separators installed aboard the vessel	
15	264	B	Immediately after extinguishing a fire with CO <sub>2</sub> , it is advisable to _____.	use all CO <sub>2</sub> available to cool the surrounding area	standby with water or other agents	thoroughly ventilate the space of CO <sub>2</sub>	jettison all burning materials	
15	265	B	Which of the following must be carried out in order to manually launch an inflatable liferaft not designed for float-free operation?	It will be easily launched by simply breaking the weak link.	Depress the hydrostatic release button.	It is easily launched by cutting the container securing straps.	It is only necessary to attach the weak link to the vessel.	
15	266	C	A fire main system must have enough fire hydrants for each accessible space to be reached with _____.	a low velocity spray applicator	a water spray or solid stream	at least two spray patterns of water	at least 25 psi delivered pressure	
15	267	A	The preferred method of controlling external bleeding is by _____.	applying direct pressure on the wound	elevating the wounded area	applying pressure on a pressure point	applying a tourniquet above the wound	
15	268	B	When compared to other fire extinguishing agents, water fog _____.	has the greatest ability to produce foam	has the greatest cooling ability	will completely remove toxic fumes from the air	will completely remove combustible vapors from the air	
15	269	A	The quality of initial stability is indicated by _____.	GM	KM	Deck load	Maximum allowed KG	
15	270	A	Each fire hydrant is required to have at least one spanner wrench and at least one _____.	hose rack or reel	all-purpose nozzle	foam applicator	pick axe	
15	271	A	Forces within a mobile offshore drilling unit have caused a difference between the starboard and port drafts. This difference is _____.	list	heel	trim	flotation	
15	272	B	With damaged floating vessels, the most important consideration is the preservation of _____.	bilge pumping capacity	reserve buoyancy	level attitude	instability	
15	273	A	You have found a person laying prone and not breathing. An electric wire is touching the victim. Which of the actions listed is the FIRST thing you should do?	Shut off the power or remove the wire from the person.	Immediately begin artificial respiration.	Immediately begin cardiac massage.	Leave the accident scene and summon medical assistance.	
15	274	C	An initial attempt to extinguish a galley grease fire may be made by using _____.	water	a mechanical foam system	the range hood extinguishing system	fire dampers only	

15	275	B	Which of the following is the correct procedure to follow when launching an inflatable liferaft by hand from an ocean going vessel?	Connect the stainless steel link (float free link) to the vessel.	Pull the line (painter) from the container and make it fast to the cleat provided.	Open the canopy relief valves.	Remove the raft from the container to permit complete inflation.	
15	276	B	The size of the fire hydrant hose connections must be either 1 1/2 inches or _____.	1 inch	2 1/2 inches	3 inches	3 1/2 inches	
15	277	B	First aid treatment for small cuts and open wounds should be to _____.	have the patient lie down and cover the wound when the bleeding stops	stop the bleeding, clean, medicate, and cover the wound	apply an ice pack to the wound and cover it when the bleeding stops	apply a hot towel to purge the wound, then medicate and cover it	
15	278	D	Water applied as a "fog" can be more effective than water applied as a "solid stream", because _____.	a given amount of water can absorb more heat when it is in the form of fog	it reduces the total amount of water that must be pumped into the ship to fight a given fire	it does not have to hit the seat of fire to be effective	of all of the above	
15	279	A	The stability term for the distance between the center of gravity (G) to the Metacenter (M), when small angle stability applies is known as the _____.	metacentric height	metacentric radius	height of the metacenter	righting arm	
15	280	A	The wooden plug fitted tightly in the vent of a damaged tank may prevent the tank from _____.	filling completely	developing free surfaces	developing free surface moments	collapsing	
15	281	D	The angle to which a floating MODU, with a negative initial metacentric height, lies while at rest in still water is the angle of _____.	trim	yaw	heel	loll	
15	282	C	Which of the following symptoms may be observed in a victim of cardiac arrest as a result of electric shock?	weak pulse at wrist or neck	flushed face	respiration is weak or has stopped	All of the above symptoms	
15	283	B	Each fire hydrant serving the machinery spaces of a MODU containing oil fired boilers, internal combustion machinery, or fuel oil units, must be equipped with a _____.	fireman's outfit	low velocity spray applicator	marine strainer	pick axe	
15	284	D	Heavy smoke is observed to be issuing from the partially open door of the paint locker, the FIRST firefighting attack should be to _____.	leave the door and vents open, but release the CO2 flooding system	open the door to evaluate the extent of the fire	enter and use a portable extinguisher	secure the door and vents, then manually release the CO2	
15	285	B	Each fire hose coupling on a MODU must have threads to meet the specifications of the _____.	American Petroleum Institute	National Standard Fire Hose Coupling	American Society of Mechanical Engineers	Underwriter's Laboratories, Inc.	
15	286	C	On a MODU, firefighting equipment must be inspected once every _____.	three months	six months	twelve months	eighteen months	
15	287	A	Bleeding from a vein can be characterized as _____.	dark red and slow	bright red and slow	bright red and spurting	dark red and spurting	
15	288	C	On a MODU, size I and II fire extinguishers are considered _____.	fixed systems	steam generated	hand portable units	semi-portable units	
15	289	A	The upward force of displaced water is known as _____.	buoyancy	deadweight	draft	freeboard	
15	290	B	On a MODU, a fire extinguisher charged with 15 pounds of CO2 or 10 pounds of dry chemical is a size _____.	I	II	III	IV	
15	291	B	Although "KG" for a MODU in a lightweight condition is relatively high, the vessel is stiff because _____.	"KM" is small	"KM" is high	"BL" is small	"KB" is large	
15	292	D	If the cause of a sudden severe list or trim is negative initial stability, counterflooding into empty tanks may _____.	increase the righting moment	cause an increase in the righting arm	bring the unit to an upright equilibrium position	cause the unit to flop to a greater angle	
15	293	B	Fire extinguishers of the sizes designated by III, IV, and V are considered _____.	portable units	semi-portable units	fixed systems	disposable units	



15	294	B	After extinguishing a paint locker fire using the fixed CO2 system, the next immediate action is for the space to be _____.	opened and burned material removed	left closed with vents off until all boundaries are cool	checked for the proper oxygen level	opened and doused with water to prevent reflash	
15	295	C	Control valves for a CO2 fire extinguishing system may be located within the protected space when _____.	it is impractical to locate them outside	there is also a control valve outside	the CO2 cylinders are also in the space	an automatic heat sensing trip is installed	
15	296	A	The primary danger in helicopter fires occurring on a MODU is _____.	burning jet fuel running into the quarters or other areas	loss of the mooring system	rotating and flying debris	heat damage to helicopter structure	
15	297	C	Blood flowing from a cut artery would appear _____.	dark red with a steady flow	bright red with a steady flow	bright red and in spurts	dark red and in spurts	
15	298	D	One of the main concerns when fighting a galley fire is _____.	contamination food with extinguishing agent	spreading of fire through the engineering space	the loss of stability	the igniting of a grease fire in the range hood ventilation system	
15	299	A	The important initial stability parameter "GM" is the _____.	metacentric height	height of the metacenter above the keel	height of the center of buoyancy above the keel	height of the center of gravity above the keel	
15	300	A	On a MODU, a fire drill shall be conducted once every _____.	week	month	crew change	other week	
15	301	B	When the force of the wind causes a floating MODU to heel to a static angle, the _____.	centers of buoyancy and gravity are in the same	righting moment equals the wind heeling moment	downflooding point is below water	deck edge immersion occurs	
15	302	D	If the cause of severe list, or trim is due to off-center ballast, counterflooding into empty tanks will _____.	increase the righting moment	increase the righting arm	increase list or trim	decrease list or trim	
15	303	B	As a firefighting medium, CO2 can be dangerous under certain conditions as it can cause _____.	hallucinations	burns and blistering	undulation	carbon monoxide poisoning	
15	304	C	Actuating the fixed CO2 system should cause the automatic shutdown of the _____.	fuel supply only	exhaust ventilation only	supply and exhaust ventilation	mechanical and natural ventilation	
15	305	D	The stamped full weight of a 100 lb. CO2 cylinder is 314 pounds. What is the total minimum weight of the cylinder before it must be recharged?	282 lbs.	294 lbs.	300 lbs.	304 lbs.	
15	306	A	During a fire drill on a MODU, which of the following actions is required to be carried out?	Each fire pump is to be started.	The lifeboat is to be launched and operated.	An inventory of rescue and fire equipment is to be taken.	An inspection and inventory of fire hoses is to be made.	
15	307	B	As a last resort, a tourniquet can be used to _____.	hold a victim in a stretcher	stop uncontrolled bleeding	hold a large bandage in place	restrain a delirious victim	
15	308	C	After a fire aboard a MODU, the Coast Guard must be notified if there is death, an injury resulting in more than 72% incapacitation, or property damage in excess of _____.	\$(SA)15,000	\$(SA)10,000	\$(SA)25,000	\$(SA)50,000	
15	309	D	The important stability parameter "KG" is defined as the _____.	metacentric height	height of the metacenter above the keel	height of the center of buoyancy above the keel	height of the center of gravity above the keel	
15	310	B	On a MODU, watertight doors should be operated _____.	during abandon drill	during fire drill	quarterly	when the rig is being moved	
15	311	A	A quick and rapid motion of a MODU in a seaway is an indication of _____.	large "GM"	high center of gravity	excessive free surfaces	small "GZ"	
15	312	C	During counterflooding to correct a severe list or trim aggravated by an off center load, a MODU suddenly takes a list or trim to the opposite side. You should _____.	continue counterflooding in the same direction	continue counterflooding, but in the opposite direction	immediately stop counterflooding	deballast from the low side	

15	313	A	If the alarm provided in the fixed CO2 system sounds in the engine room, you should _____.	leave the space immediately	start the fire pump	make certain that the CO2 starts flowing into the space	immediately assist the fixed system by discharging all portable units as well	
15	314	B	The two courses of action to take if the underwater hull of a MODU is severely damaged, are to plug the opening and to _____.	dewater the compartment	establish and maintain flooding boundaries	secure power to the compartment	counterflood to maintain even keel	
15	315	D	After using a CO2 fire extinguisher on a MODU, it should be _____.	put back in service if some CO2 remains	hydrostatically tested	retagged	recharged	
15	316	B	You are preparing to administer closed chest cardiac massage on a victim of electric shock. Which of the following actions is NOT a recommended procedure?	Placing the victim on his or her back and exposing the chest.	Giving cardiac massage without artificial respiration.	Rocking so that a controlled amount of body weight goes through your arms and hand to their breastbone.	Placing one hand across victim's breastbone so that the heel of the hand covers the lower part.	
15	317	C	A person suffering from possible broken bones and internal injuries should _____.	be assisted in walking around	be examined then walked to a bunk	not be moved, but made comfortable until medical assistance arrives, provided he is in a safe environment	not be allowed to lie down where injured but moved to a chair or bunk	
15	318	C	The object of plugging holes below the waterline on a MODU should be to _____.	eliminate all water entering through the hole	only plug holes in machinery or other vital spaces	reduce the entry of water as much as possible	plug the largest holes first	
15	319	B	Which abbreviation represents the height of the center of buoyancy?	BK	KB	CB	BM	
15	320	C	How often are fire hoses required to be tested on a mobile offshore drilling unit?	Once a week.	Once a month.	Once a year.	During each drill.	
15	321	A	A slow and easy motion of a MODU in a seaway is an indication of _____.	small "GM"	low center of gravity	a stiff vessel	large "GZ"	
15	322	A	If a MODU takes a sudden severe list or trim from an unknown cause, you should first _____.	determine the cause before taking countermeasures	assume the shift is due to off center loading	counterflood on the side opposite the list or trim	assume the cause is environmental forces	
15	323	B	What is the function of the small gas accumulator cylinder attached to the discharge piping of the engine room fixed CO2 system?	It absorbs the pressure shock to the piping resulting from the initial release of carbon dioxide.	It delays the release of carbon dioxide into the engine room.	It directly activates the warning siren in the engine room.	It controls the rate of discharge of carbon dioxide into the engine room.	
15	324	B	When patching holes in the hull of a MODU, pillows, bedding, and other soft materials can be used as _____.	caulking	gaskets	strongbacks	wedges	
15	325	B	On a MODU, a CO2 fire extinguisher is checked by _____.	reading the gage pressure	weighing the extinguisher	discharging a small amount of CO2	checking for broken inspection seals	
15	326	C	A fire pump used on a MODU requires 175 psi discharge pressure to maintain the required 50 psi pitot tube pressure at the two highest hydrants. The maximum pressure setting for this installation relief valve is _____.	125 psi	175 psi	200 psi	225 psi	
15	327	C	What is the primary purpose for applying a splint in first aid?	Control bleeding	Reduce pain	Immobilize the fracture	Reset the bone	
15	328	C	A Crude Oil Wash (COW) system is considered as _____.	a water operated Butterworth system	a mechanism which filters and purifies crude oil	a Butterworth system using crude oil instead of water as the cleaning medium	a cleanup for pump room bilges	

15	329	D	The abbreviation "GM" is used to represent the _____.	height of the metacenter	righting arm	righting moment	metacentric height	
15	330	A	Automatic mechanical ventilation shutdown is required for CO2 systems protecting the _____.	machinery spaces	cargo compartments	living quarters	galley	
15	331	D	Your assigned emergency stations aboard your vessel can be found on the ship's _____.	clearance papers	permit to proceed	certificate of inspection	station bill	
15	332	D	The procedure of strengthening damaged structures on a MODU by using wood or steel is called _____.	bracing	battening	blocking	shoring	
15	333	B	You should operate a fixed CO2 system by opening the control valve to the space protected and _____.	visually checking to see that CO2 is discharging through the piping	operating a separate control to release CO2	listening for the sound of the warning siren	modulating the proper amount of CO2 from individual bottles	
15	334	B	Repair of structures on a MODU in the vicinity of liquid mud handling areas presents which of the possible listed hazards?	Toxic gasses may be present.	Flammable gasses may be present.	Liquid muds may flood adjoining spaces.	An oxygen-deficient atmosphere may be present.	
15	335	C	A CO2 fire extinguisher provided aboard a MODU has lost 10% of its charge. It now must be _____.	used at the earliest opportunity	hydrotested	recharged	weighed again in one month	
15	336	A	Before releasing CO2 into the machinery space, the alarm for a fixed CO2 fire extinguishing system must sound for at least _____.	20 seconds	30 seconds	40 seconds	60 seconds	
15	337	B	If a person suffers a simple fracture of a limb, you should _____.	attempt to set the fracture	prevent further movement of the bone	apply a tourniquet without delay	alternately apply hot and cold compresses	
15	338	A	When shoring a damaged bulkhead on a MODU, any effort should be taken to spread the pressure over the _____.	maximum possible area	minimum possible area	nearest watertight door	nearest longitudinal girder	
15	339	B	You can find the location of your abandon ship post by checking the _____.	Certificate of Inspection	Station bill	vessel's logbook	vessel's documentation	
15	340	B	Operation of the release control valve on a fixed CO2 fire extinguishing system, must automatically _____.	release CO2 to the protected space	secure all mechanical ventilation in the protected space	sound the general alarm signal for a fire	sound an alarm in the ballast control room	
15	341	B	Coast Guard Regulations (46 CFR) states that duties assigned to the crew by the station bill will _____.	be given on a bid basis	be comparable with their regular work	not exceed regular hours	be overtime duties	
15	342	B	The objective of shoring the damaged area of a MODU is to _____.	force the warped, bulged, or deformed sections back into place	support and hold the area in the damaged position	withstand subsequent additional damage	make a watertight seal at the damaged area	
15	343	C	In order to release CO2 to the machinery spaces, you must physically open the engine room _____.	control valve and actuate the alarm	CO2 releasing valve and actuate the alarm	control valve, then open the CO2 releasing valve	control valve, then shut off the engine room ventilation	
15	344	C	Fighting an oil rig fire in a watertight compartment with hoses could reduce the stability of the rig by _____.	progressive downflooding	reducing the level of drill water from the storage tanks	causing a list due to the water in the compartment	reducing the KG to minimum allowable	
15	345	D	Aboard a MODU, a CO2 fire extinguisher must be weighed _____.	monthly	quarterly	semiannually	annually	
15	346	C	A fixed CO2 fire extinguishing system on a MODU, with a capacity of over 300 lbs (136 kilograms) CO2, protecting spaces other than tanks, must have _____.	two or more releasing stations	automatic release in event of a fire	an audible alarm and time delay	an audible and visible alarm	
15	347	D	A compound fracture is a fracture _____.	in which more than one bone is broken	in which the same bone is broken in more than one place	which is accompanied by internal bleeding	which causes external bleeding at the site of the fracture	
15	348	B	In plugging submerged holes on a MODU, rags, wedges, and other materials should be used in conjunction with plugs to _____.	reduce the water pressure on the hull	reduce the water leaking in around the plugs	prevent progressive rapid flooding	reduce the possibility of stress fractures	

15	349	B	Stability is determined principally by the relationship of the center of gravity and the _____.	aft perpendicular	center of buoyancy	keel	center of flotation	
15	350	D	On a MODU, a fixed carbon dioxide fire extinguishing or other approved system, must be installed _____.	where oil or chemical drums are stored	in a space with an oil fired boiler	in paint lockers	in all of the above locations	
15	351	C	For a MODU with a list, a decrease in "GMT" will cause the angle of inclination to _____.	stabilize at an angle of loll	decrease	increase	remain constant	
15	352	C	Fighting an oil rig fire in the ballast pumproom with hoses would adversely affect the stability of the rig most by _____.	increasing the permeability of the pumproom	reduction of drill water from the storage tanks	a list caused by water filling the compartment	A reduced KG caused by water filling the compartment	
15	353	B	In the event of a fire, automatic activation of a fixed CO2 extinguishing system can result in which of the following areas?	Machinery space	Paint locker	Cargo hold	All of the above	
15	354	D	Which of the listed firefighting systems is best suited for fighting a fire in an oil rig ballast control room?	Automatic sprinkler system	Steam smothering system	Dry chemical system	Carbon dioxide system	
15	355	C	How often must fixed CO2 fire extinguishing systems be inspected to confirm the cylinders are within 10% of the stamped full charge weight?	Quarterly.	Semiannually.	Annually.	Biannually.	
15	356	C	Portable Halon fire extinguishers used on a MODU may be charged with _____.	HALON 1301 only	HALON 22 only	HALON 1211 only	HALON 1301 or 1211	
15	357	A	Which of the listed of fractures would be considered as the most serious?	Compound	Greenstick	Closed	Crack	
15	358	A	Which of the following statements concerning chemical foam is true?	It is formed as a result of the reaction between dry powder and water.	It is recommended for use on fires in main propulsion electric motors.	It is formed as a result of the rapid mixing of foam liquid, water, and air.	It is useful in fighting only chemical fires.	
15	359	C	Stability is determined principally by the location of two points in a vessel: The center of buoyancy and the _____.	metacenter	geometric center of the water plane area	center of gravity	center of flotation	
15	360	A	Due to the hazards involved with Halon type fire extinguishers on a MODU, the size II extinguisher may only be used _____.	outside of an occupied space	on class C fires	in any inside emergency	on class B fires	
15	361	A	For a MODU with trim, a decrease in "GMT" will cause the angle of inclination to _____.	increase	decrease	remain constant	stabilize at an angle	
15	362	B	A fire in an oil rig ballast pumproom can be brought under control with minimal impact on stability by _____.	cooling the outside bulkheads with water	shutting all sources of air into the compartment	closing the sea chest	flooding the compartment with salt water	
15	363	B	If there are a number of survivors in the water after abandoning a MODU, they should _____.	tie themselves to the unit to avoid drifting with the current	group to form a small circle of survivors to create a warmer pocket of water in the center of the circle	send the strongest swimmer to shore for assistance	form a raft by lashing their lifejackets together	
15	364	C	Hydrogen sulfide in explosive concentrations has been detected on the drill floor. The abandon rig signal has been sounded. To evacuate the rig, the crew should use _____.	all survival capsules and liferafts	only the leeward survival capsules and liferafts	only the windward survival capsules	only the windward liferafts	
15	365	C	Cartridge-operated dry chemical fire extinguishers used on MODUs, should have the propellant cartridge weighed every _____.	three months	six months	12 months	two years	
15	366	A	Where foam extinguishing systems are provided on a MODU, each machinery flat in the protected space must have a/an _____.	coaming	alarm	drain	fire sensor	

15	367	B	Unless there is danger of further injury, a person with a broken bone should not be moved until bleeding is controlled and _____.	the bone has been set	the fracture is immobilized	radio advice has been obtained	the wound has been washed	
15	368	D	The most effective means for combating an oil fire on the water surrounding a vessel is to use _____.	high velocity fog over the fire	solid streams of water directed at the edge of the fire	dry chemicals over the fire	foam directed against the side of the vessel	
15	369	C	When positive stability exists, "GZ" represents the _____.	righting moment	center of gravity	righting arm	metacentric height	
15	370	D	The preferred fire extinguishing agent used in fighting a helicopter crash fire on a MODU is _____.	CO2	dry chemical	water	foam	
15	371	B	For a MODU with a list, an increase in "GMT" will cause the inclination to _____.	stabilize at an angle of loll	decrease	increase	remain constant	
15	372	D	Each person on the rig has a designated area to proceed to in the event of a fire. This assignment is shown clearly on the rig's _____.	firefighting plan	shipping articles	Certificate of Inspection	station bill	
15	373	C	In a fixed CO2 system, the "pilot" cylinders are used to _____.	direct CO2 to the pilot house	activate individual groups of CO2 bottles in a predetermined time delay sequence	activate the main bank all at once	automatically activate the main bank if an abnormal heat rise is detected	
15	374	A	The station bill shows each crew lifeboat station, their duties during abandonment, basic instructions, and _____.	all emergency signals	instructions for lowering the survival capsule	the time each weekly drill will be held	work schedule	
15	375	B	Fire extinguishers used on MODUs are indicated by size using the designators "I" through "V", with "I" being _____.	used for electrical fires only	the smallest size	the most accessible size	the most effective size	
15	376	C	Which of the listed equipment must be provided on a MODU helicopter deck equipped with fueling facilities?	Fuel testing station	Foam testing station	Foam fire protection system	Fire alarm	
15	377	D	You are treating a shipmate with a compound fracture of the lower arm. Which of the listed actions should you take?	Apply a tourniquet to control bleeding then align the bones and splint.	Apply traction to the hand to keep the bones in line, splint and apply a pressure dressing.	Force the ends of the bones back into line, treat the bleeding, and splint.	Apply a bulky, sterile, pressure dressing to control bleeding, then apply a temporary splint and place the victim in bed.	
15	378	B	The usual method for effectively applying foam on a fire is by _____.	spraying directly on the base of the fire	flowing the foam down a vertical surface	sweeping the fire before you with the foam	spraying directly on the surface of the fire	
15	379	C	At all angles of inclination, the true measure of a vessel's stability is the _____.	metacentric height	displacement	righting moment	inclining moment	
15	380	B	If a mobile offshore drilling unit has four hand portable fire extinguishers that can be recharged by personnel on the unit, how many spare charges must be carried?	1	2	3	4	
15	381	B	For a MODU with trim, an increase in "GMT" will cause the inclination to _____.	stabilize at an angle of loll	decrease	increase	remain constant	
15	382	B	Control of a fire on a MODU should be addressed _____.	immediately after restoring vital services	immediately	following control of flooding	following establishment of fire boundaries	
15	383	A	To keep injured survivors warm in the water after abandoning a MODU, they should _____.	be placed in the middle of a small circle formed by the other survivors in the water	float on their backs with their arms extended for maximum exposure to the air	remove their lifejackets and hold on to the uninjured survivors	sip seawater at intervals of fifteen minutes	
15	384	D	If you have to jump into the water when abandoning a MODU, your legs should be _____.	spread apart as far as possible	held as tightly against your chest as possible	in a kneeling position	extended straight down and crossed at the ankles	

15	385	D	On a MODU, size "III", "IV", and "V" fire extinguishers are considered _____.	hand portable units	all-purpose units	fixed fire extinguishing systems	semi-portable units	
15	386	B	The minimum number of portable C-II fire extinguishers required on the drill floor of a MODU is _____.	1	2	3	4	
15	387	D	In any major personal injury, first aid is to include the treatment of the injury and what additional treatment?	Application of CPR	Removal of any foreign objects	Administration of oxygen	Treatment for traumatic shock	
15	388	A	The use of which fire extinguishing agent involves covering the burning surface by deflecting the agent from a bulkhead to avoid undue agitation?	Foam	Dry chemical	Carbon dioxide	Halon 1301	
15	389	B	The weight of the liquid displaced by a vessel floating in sea water is equal to the _____.	weight required to sink the vessel	total weight of the vessel	displaced submerged volume	reserve buoyancy	
15	390	B	The inspection of portable fire extinguishers on a MODU must be _____.	accomplished by an authorized servicing representative	recorded by the person-in-charge	completed every six months	all of the above	
15	391	B	For a MODU with transverse inclination, an increase in "GMT" causes _____.	list to stabilize at an angle	list to decrease	trim to decrease	list to increase	
15	392	A	The Coast Guard requires machinery spaces and enclosed mud handling spaces to have _____.	remote ventilation shutdowns	remote pump shutdowns	alternative control stations	smoke and/or fire detection system	
15	393	A	When discharging the main bank of fixed CO2 into a major engine room fire, CO2 pressure is used to _____.	discharge each bottle	sound the general alarm	secure the ventilation fan dampers	All of the above.	
15	394	A	When should the emergency position-indicating radio beacon be activated after abandoning a MODU?	Immediately	After on hour	Only when another vessel is in sight	Only after sunset	
15	395	C	Semi-portable fire extinguishers used on MODUs are of the sizes _____.	II, III, and IV	I, II, and III	III, IV, and V	IV and V	
15	396	C	On a MODU, hand portable extinguishers are size(s) _____.	II only	II and III	I and II	I only	
15	397	C	Which of the following is NOT a treatment for traumatic shock?	Keep the patient warm, but not hot.	Have the injured person lie down.	Massage the arms and legs to restore circulation.	Relieve the pain of the injury.	
15	398	C	A "class B" fire is extinguished using foam by _____.	cooling the surface	replacing the fuel	smothering the fire	all of the above	
15	399	C	When the height of the metacenter is less than the height of the center of gravity, a vessel has what type of stability?	Stable	Neutral	Unstable	Positive	
15	400	A	What is the minimum required number of fire axes that must be carried on a mobile offshore drilling unit?	2	3	4	5	
15	401	D	For a MODU with longitudinal inclination, an increase in "GML" causes _____.	list to stabilize at an angle of loll	trim to stabilize at an angle of loll	trim to increase	trim to decrease	
15	402	B	Explosive and flammable gases are most likely to be encountered on a MODU _____.	in machinery spaces	on the drill floor and liquid mud handling areas	in bulk storage tanks	at any location	
15	403	C	On a cargo ship equipped with a combination detection-carbon dioxide system, the presence of fire is indicated at the cabinet simultaneously in two spaces: #3 hold upper between decks, containing bagged coffee beans; and #4 lower hold containing fertilizer. To combat these fires you should _____.	open the three-way valves to each space simultaneously	open the applicable three way valve for #3 hold and fight the fire in #4 hold with water	open the applicable three way valve for #4 hold. After discharge, secure the valve; then open the applicable valve for #3 hold.	activate the pilot CO2 cylinders, directing the discharge to #3 hold, then to #4 hold through the three-way valve	
15	404	B	Flooding of any compartment in a ship, resulting in a serious loss of reserve buoyancy, will always _____.	increase ship stability	reduce ship stability	cause a serious permanent list	decrease the heeling moment	
15	405	C	Which of the equipment listed is required to be included in the fireman's (emergency) outfit?	Chemical protection face shield	Approved work vest	Self-contained breathing apparatus	5 cell approved flashlight	

15	406	D	When entering the pumproom of a tank vessel to rescue an unconscious person, which items of the equipment listed are you required to be using?	Protective clothing and explosion-proof flashlight	Flame safety lamp and resuscitation equipment	Combustible gas indicator and canister gas mask	Self-contained breathing apparatus and lifelines	
15	407	B	Which of the following treatments is used for traumatic shock?	Administer CPR	Administer fluids	Open clothing to allow cooling of the body	Keep the victim in a sitting position	
15	408	B	Foam extinguishes a fire by _____.	chemically absorbing the oxygen	smothering the burning material	chemically absorbing the burning material	releasing large amounts of carbon dioxide	
15	409	B	When the height of the metacenter is the same as the height of the center of gravity, the upright equilibrium position is _____.	stable	neutral	unstable	negative	
15	410	A	Smoking in bed on a MODU is prohibited _____.	at all times	during evening hours	unless another person is present	during drilling operations	
15	411	B	When a MODU is inclined at a small angle, the center of buoyancy will _____.	remain stationary	move toward the low side	move toward the high side	move to the height of the metacenter	
15	412	A	The order to abandon a MODU should only be given by the _____.	Offshore Installation Manager	Barge Engineer	Ballast Control Operator	Rig Safety Supervisor	
15	413	D	During severe storms, when survival becomes a major concern, it may become necessary to relieve high anchor tensions on the windward side of the MODU by _____.	deballasting the rig	ballasting the rig	paying out cable on the windward side	paying out cable on the leeward side	
15	414	C	Flooding of any ship's compartment, resulting in a serious loss of reserve buoyancy, will always _____.	increase the trim	change the free surface effect	decrease ship stability	cause a serious list	
15	415	B	How many fireman's outfits are required on a MODU?	1	2	3	4	
15	416	D	A crew member has been overcome by toxic fumes in the pumproom. Which of the following actions should be taken before entering the pumproom to rescue the victim?	Put on an approved self-contained breathing apparatus.	Have someone stand by the entrance.	Wear a lifeline.	All of the above.	
15	417	D	Which of the following conditions is a symptom of a person in shock?	Warm and dry	Warm and damp	Cold and dry	Cold and damp	
15	418	D	Foam extinguishes a fire by _____.	destroying the burning materials	chemical reaction with the burning material	absorbing the burning material	smothering the burning material	
15	419	A	When the height of metacenter is greater than the height of the center of gravity, a vessel has what type of stability?	Positive.	Neutral.	Unstable.	Negative.	
15	420	D	To which of the listed authorities must a MODU report a collision with an aid to navigation?	Nearest Oceanographic Office.	Captain of the Port.	National Ocean Service.	Appropriate Officer-in-Charge, Marine Inspection.	
15	421	C	A floating MODU with an initial negative metacentric height _____.	will capsize	will incline further	may lie at an angle of loll	may be initially level	
15	422	B	If you wear extra clothing when entering the water after abandoning a MODU it will _____.	weigh you down	preserve body heat	reduce your body heat	make it more difficult to breathe	
15	423	B	Survival practice in the MODU mooring system is to slack off the tensions on the leeward side and _____.	deballast the unit to transit draft	adjust as evenly as practical the windward tensions	release the anchors on the windward side	tighten the anchor buoys on the leeward side anchors	
15	424	C	What is the usual effect of moving weight from low in the vessel to above the main deck?	The stability is increased.	The draft is increased.	The stability is decreased.	The reserve buoyancy is decreased.	
15	425	C	What additional precautions should be taken when making temporary repairs to a MODU that is operating while hydrogen sulfide is present?	Seal off all tank and compartment ventilation.	Remove all bulk materials from the P-tanks.	Provide respiratory protection and monitoring.	All of the above.	
15	426	D	Which of the following is considered as the correct action for the rescue of an unconscious person from a compartment containing an unsafe atmosphere?	Wear an approved self-contained breathing apparatus.	Attach a lifeline to the rescuer.	Have someone stand by outside the compartment.	All of the above.	
15	427	A	Which of the following conditions is NOT a symptom of traumatic shock?	Slow deep breathing	Pale and cold skin	Weak and rapid pulse	Restlessness and anxiety	

15	428	C	Extinguishing an oil fire when using foam is a result of _____.	Cooling	Dampening	Smothering	Vapor absorption	
15	429	B	The lowest temperature at which the vapor formed from a liquid ignites and continues to burn steadily in the presence of an ignition source is called the _____.	flash point	fire point	upper explosive limit	lower explosive limit	
15	430	D	Fire and lifeboat stations are required to be listed on the _____.	ship's articles	bunk card	forecastle card	station bill	
15	431	D	If the result of loading a MODU is an increase in the height of the center of gravity, there will always be an increase in the _____.	metacentric height	righting arm	righting moment	vertical moments	
15	432	A	Onboard mobile offshore drilling units, the key to the most rapid and effective response to a man overboard situation is _____.	well-conducted drills	a dedicated crew	good equipment	good communication	
15	433	B	After the annual servicing of your ship's fixed CO2 system, you receive the report shown in the illustration. Which CO2 cylinders require recharging?	105	103 and 108	109	All of the above	See illustration number(s): SF-0014
15	434	D	If a vessel loses its reserve buoyancy, it will _____.	float upright with the main deck awash	capsize and float on its side	remain unaffected if the hull remains intact	most likely sink	
15	435	D	Which type of respiratory protection is preferable for the repair/investigation personnel on a MODU in a hydrogen sulfide (H2S) environment?	U.S. Navy Oxygen Breathing Apparatus (OBA)	Emergency Escape Breathing Apparatus (EEBA)	Self-Contained Demand-Type Breathing Apparatus (SCDBA)	Pressure-Demand Self-Contained Breathing Apparatus (SCBA)	
15	436	A	Which of the following procedures is always recommended in the rescue of an unconscious person from a compartment containing an unsafe atmosphere?	Have the rescuers wear an approved self-contained breathing apparatus.	Have the rescuers carry in a stokes basket for the victim.	Have the rescuer carry an emergency first aid kit for the victim.	Have the rescuers carry a combustible gas analyzer.	
15	437	B	When treating a person for shock, you should wrap the victim in warm coverings to _____.	decrease body heat	preserve present body heat	avoid self-inflicted wounds caused by spastic movement	protect the person from injury during transportation	
15	438	B	When using mechanical foam to fight a bilge fire, the stream of foam is most effective when directed _____.	at the overhead	at a vertical surface	onto the deck	directly into the bilge water	
15	439	B	Reducing the free surface of a liquid within a tank has the effect of lowering the _____.	uncorrected "KG"	virtual height of the center of gravity	metacenter	metacentric height	
15	440	B	Since accumulations of hydrogen sulfide gas on a MODU can be dangerous to personnel, it is important to know that this gas is _____.	lighter than air	heavier than air	a yellow gas that is easily recognized	mildly toxic	
15	441	A	The purpose of the inclining experiment on a MODU is to determine _____.	lightweight and lightweight center of gravity location	the position of the center of buoyancy	the position of the metacenter	the maximum load line	
15	442	B	A person who observes an individual fall overboard from a MODU should _____.	immediately jump into the water to assist the individual	call for help and keep the individual in sight	run to the radio room to send an emergency message	go to the control room for the distress flares	
15	443	D	You receive the record of cylinder weights, shown in the illustration, at the annual servicing of your ship's CO2 system. Which pair of CO2 cylinders requires recharging?	101 and 102	103 and 106	106 and 108	103 and 108	See illustration number(s): SF-0014
15	444	B	The reserve buoyancy of a vessel varies directly with changes in the vessel's _____.	free surface	freeboard	rolling period	none of the above	
15	445	C	The sense of smell cannot be depended upon to detect hydrogen sulfide because _____.	it has a smell similar to petroleum products	the gas is odorless in any concentration	of paralysis to the olfactory nerves	it is better to rely on eye irritation as a detector	
15	446	B	Which of the following is NOT a mandatory requirement part of the shipboard oil pollution emergency plan?	reporting requirements	diagrams	steps to control a discharge	national and local coordination	



15	447	C	The fundamental treatment for preventing traumatic shock following an accident is to _____.	have the victim exercise to increase circulation	stay away from electrical equipment	keep the victim warm and dry while lying down	apply ice packs and avoid excitement	
15	448	C	Which of the following statements concerning Aqueous Film Forming Foam (AFFF) is correct?	AFFF can be used effectively on live electrical equipment.	AFFF can be used to extinguish combustible metal fires.	AFFF may be used in a joint attack with dry chemical.	AFFF is an effective chain breaking agent similar to Halon.	
15	449	B	Increasing the free surface of a confined liquid has the effect of raising the _____.	uncorrected "KG"	virtual height of the center of gravity	metacenter	metacentric height	
15	450	B	High concentrations of hydrogen sulfide gas are most dangerous to personnel because they can _____.	cause involuntary skeletal muscle contractions	paralyze your breathing system	cause eye inflammation	cause dizziness	
15	451	B	The effects of free surface on initial stability depend upon the surface area dimensions of the free liquids and the _____.	volume of liquid in the tank	volume of displacement of the MODU	location of the tank in the MODU	height of the center of gravity of the MODU	
15	452	A	When the wave period and the apparent rolling period of the MODU are the same, _____.	synchronous rolling occurs	the roll period decreases	the roll period increases	the roll amplitude is dampened	
15	453	B	The fire alarm signal onboard United States flag merchant vessels is a continuous blast of the whistle for a period of not less than 10 seconds, supplemented by the continuous ringing of the general alarm bells for not less than 10 seconds. Where can this information be readily found aboard ship?	Certificate of Inspection	Station bill	SOLAS Safety Construction Certificate	Fire Alarm Zone Chart	
15	454	C	The reserve buoyancy of a ship consists of _____.	the void portion of the ship below the waterline which is enclosed and watertight	all cofferdams, double bottoms, and wing tanks that are slack	the part of the enclosed and watertight portion of a vessel above the waterline	the percentage of the volume of a compartment which can be occupied by water if flooded	
15	455	C	The worst atmospheric condition for dispersion of hydrogen sulfide is _____.	heavy rain	gusty winds with rain	nearly calm, clear nights or early morning	full sun with high winds	
15	456	C	Which of the following statements is true concerning the actions of a properly organized rescue party for removing an unconscious victim from a tank containing toxic vapors?	The victim should not be moved until the extent of his injuries is determined.	The victim should be fitted with a canister type OBA as soon as possible.	The rescue party should provide the victim with oxygen or fresh air immediately.	The tank vapors should be tested with an explosimeter before personnel enter.	
15	457	C	After an accident, the victim may go into shock and die. Which of the following actions should be taken to help prevent shock?	Slightly elevate the head and feet.	Keep the person awake.	Keep the person lying down and at a comfortable temperature.	Give the person a stimulant to increase blood flow.	
15	458	D	Which of the following statements is true concerning Aqueous Film Forming Foam (AFFF)?	The agent cannot be used in conjunction with dry chemicals.	AFFF can only be produced from fresh water.	Because AFFF works through surface tension, it cannot be broken up if it is agitated.	AFFF controls the vaporization of flammable liquids by means of a water film.	
15	459	A	Reducing the free surfaces within a vessel, reduces the _____.	natural roll period	metacentric height	waterplane area	uncorrected height of the center of gravity	
15	460	C	The airborne concentrations of substances (such as hydrogen sulfide) under which nearly all workers may be repeatedly exposed without adverse effects are called _____.	exposure limits	concentration limits	threshold limit values	substance limit values	
15	461	C	The free surface effects of a partially filled liquid tank decrease with increased _____.	density of the liquid	placement of the tank above the keel	displacement volume of the MODU	size of the surface area in the tank	

15	462	A	Why is an upper limit switch used when raising the lifeboat?	To prevent the davits from pulling up against the stops.	To assist in cranking in the lifeboat.	To keep the tricing lines from releasing or getting tangled.	To stop the lifeboat from being lowered.	
15	463	C	The empty weight of a "100 pound" (45.4 kg) cylinder in a fixed CO2 system is 130 pounds (58.9 kg). What is the minimum acceptable total weight of the cylinder before recharging is required?	200 lbs (90.7 kg)	210 lbs (95.2 kg)	220 lbs (99.8 kg)	230 lbs (104.3 kg)	
15	464	C	Locations on a MODU, where flammable hydrocarbon gas or vapors may accumulate due to drilling operations, are defined as _____.	gaseous locations	hazardous locations	classified locations	designated locations	
15	465	D	The minimum concentration of hydrogen sulfide that can result in death if a person is exposed for even an instant is _____.	200 ppm	400 ppm	600 ppm	1000 ppm	
15	466	A	While you are fighting a fire in a smoke-filled compartment one of your shipmates falls sustaining a severe laceration and ceases breathing. Your FIRST response should be to _____.	remove him from the compartment	begin artificial respiration	control the bleeding	treat for shock	
15	467	B	If there is no head injury, extreme physical discomfort or difficulty breathing a patient in shock should be placed in which of the positions listed?	Head up and feet down	Head down and feet up	Flat on back with head and feet at the same level	Arms above the head	
15	468	B	Which of the listed firefighting agents produces a buoyant blanket to separate the burning vapors from air?	CO2	Low-expansion foam	Water fog	Steam	
15	469	B	A stiff wind has caused a difference to occur between the port and starboard drafts. This condition is known as _____.	list	heel	trim	flotation	
15	470	B	The maximum concentration of hydrogen sulfide to which workers may be regularly exposed without adverse effects is _____.	10 ppm	20 ppm	40 ppm	80 ppm	
15	471	B	The free surface corrections depend upon the surface area of the free liquids and the _____.	volume of liquid in the tank	displacement of the MODU	location of the tank in the MODU	height of the center of gravity of the MODU	
15	472	B	To determine the number of portable fire extinguishers required on a mobile offshore drilling unit, you should check the _____.	hot work permit	Certificate of Inspection	Safety of Life at Sea Certificate	operations manual	
15	473	A	When the engine room fixed CO2 system is activated, which of the following actions should be taken FIRST if the automatic fuel oil and ventilation shutoffs have failed to operate?	Manually operate the remote shutdown controls.	Activate an additional CO2 bottle to increase pressure on the pressure switch plunger.	Send someone down to manually secure the fuel oil pumps and ventilation fans.	Discharge extra carbon dioxide into the engine room.	
15	474	A	Which of the following is a mandatory section of the shipboard oil pollution emergency plan?	reporting requirements	removal equipment list	plan exercises	list of individuals required to respond	
15	475	D	The lethal concentration of hydrogen sulfide that will result in death with short-term exposure is a minimum of _____.	100 ppm	200 ppm	400 ppm	700 ppm	
15	476	C	The recommended equipment for a pumproom rescue aboard a tank vessel is a lifeline, harness, and breathing apparatus. The lifeline should be _____.	new nylon line	a minimum of two inch line	longer than twice the depth of the pumproom	led through a two sheave block	
15	477	D	The major cause of shock in burn victims is _____.	high level of pain	emotional stress	increase in body temperature and pulse rate	massive loss of fluid through the burned area	
15	478	D	Firefighting foam is only effective when the foam _____.	penetrates to the bottom of the fire	is kept saturated with low velocity water fog	mixes with the burning fuel oil	completely covers the top of the burning liquid	

15	479	B	The difference between the initial trim of a vessel and the trim after a change in load has occurred is known as _____.	trim	change of trim	final trim	change of draft	
15	480	A	If hydrogen sulfide exposure is anticipated, fixed monitoring devices aboard a MODU should have a low level concentration alarm to alert personnel when concentrations of this gas first reach a maximum of _____.	10 ppm	20 ppm	30 ppm	40 ppm	
15	481	A	The free surface effects of a partially filled tank in a floating MODU, increase with the _____.	surface area of the fluid in the tank	displacement volume of the MODU	draft of the MODU	height of the tank above the keel	
15	482	D	Which of the following is NOT required to be provided as part of the appendixes of the Shipboard Oil Pollution Emergency Plan?	a list of agencies or officials of Coastal State administrations responsible for receiving and processing incident reports	a list of agencies or officials in regularly visited ports.	a list which specifies who will be responsible for informing the parties listed and the priority in which they must be notified.	a list of personnel duty assignments	
15	483	D	Which of the listed fixed fire extinguishing systems is most effective for use in the cargo holds?	Sprinkler	Chemical foam	Dry chemical	CO2	
15	484	D	If a fixed foam firefighting system on a MODU is not of the premix type, a sample of the foam liquid must be tested by _____.	a Coast Guard inspection officer	the safety man aboard the unit	the designated person-in-charge of the unit	the manufacturer, or his authorized representative	
15	485	B	When hydrogen sulfide has been encountered on a MODU, or is anticipated, monitoring devices must sound an alarm (differing from the lower concentration alarm) or otherwise warn employees when the concentration of the gas reaches or exceeds how many parts per million?	20	50	100	200	
15	486	A	All fire hoses on a mobile offshore drilling units must be tested to a pressure of at least _____.	100 psi	110 psi	120 psi	130 psi	
15	487	B	A crew member has suffered a burn on the arm. There is extensive damage to the skin with charring present. This is an example of what kind of burn?	Dermal burn	Third degree burn	Second degree burn	Lethal burn	
15	488	B	When fighting a fire on deck with foam, you should _____.	play the foam stream directly on the burning oil	play the foam stream off nearby vertical vessel structures	only use the foam on flowing liquids	play the foam stream on the base of the fire with whirling motion	
15	489	B	The difference between the starboard and port drafts due to wind or seas is called _____.	list	heel	trim	flotation	
15	490	C	When hydrogen sulfide is burned (flared) on a MODU, which of the following conditions can be expected to occur?	All of the hydrogen sulfide will be converted to sulfur dioxide.	All of the hydrogen sulfide will be converted to hydrogen and free sulphur.	Only 80% of the hydrogen sulfide will be converted to sulfur dioxide or free sulphur.	The hydrogen sulfide not converted will not be dangerous.	
15	491	D	When the floating MODU inclines to an angle slightly less than the angle of loll, it will _____.	capsize	incline less	flop to the other side	return to the angle of loll	
15	492	D	A weathertight door on a MODU must not allow water to penetrate into the unit _____.	in 50 knot winds	in 70 knot winds	in 100 knot winds	in any sea condition	
15	493	A	Any firefighting equipment carried in addition to the minimum requirements on a MODU must _____.	meet the applicable standards	be marked as additional equipment	be stowed in a separate area	all of the above	
15	494	B	On a MODU, the possibility of a blowout makes which type of diesel engine shutdown desirable?	Overspeed trip.	Air inlet shut off.	Water injector.	Fuel cutoff valve.	
15	495	B	Individuals who have consumed alcohol within 24 hours of exposure to H2S can tolerate _____.	unusually large concentrations of H2S	smaller than normal concentrations of H2S	moderate concentrations of H2S without the usual reactions	longer exposure to H2S concentrations	

15	496	C	The instructions for launching lifeboats and liferafts on a MODU must be approved by the _____.	lease operator	Minerals Management Service	Coast Guard	person-in-charge of the unit	
15	497	C	A man has suffered a burn on his arm characterized by reddening of the skin, blistering, and swelling. This is an example of what kind of burn?	Major burn	Third degree burn	Second degree burn	Blister burn	
15	498	C	When a fire occurs in a ruptured oil cargo tank, caused by an explosion or collision, the best firefighting agent to use is _____.	water	CO2	foam	carbon tetrachloride	
15	499	C	The distance between the bottom of the hull and the waterline is called _____.	tonnage	reserve buoyancy	draft	freeboard	
15	500	A	Which of the following machinery space operations is required to be logged in the Oil Record Book?	Ballasting or cleaning of fuel oil tanks.	Shifting suction of main fuel pump to reserve fuel oil tank.	Changing out sprayer plates to adjust for steam demand.	Daily inspection of engine room bilges.	
15	501	D	In firefighting, the term "protecting exposures" means _____.	protecting fire fighters from direct exposure to the heat of the fire	keeping flames from burning at the tank vents	protecting exposed areas of the superstructure from flames	taking measures to prevent the spread of fire from the involved compartment to an adjacent compartment	
15	502	B	Which of the devices listed below is designed to prevent flames from entering through fuel tank vents?	Safety cap	Flame screen	Spark arrester	Flame inhibitor	
15	503	C	Requirements for hydrogen sulfide preparation and equipment usage aboard MODUs in U.S. offshore waters are administered by the _____.	U.S. Coast Guard	U.S. Corps of Engineers	Minerals Management Service	American National Standards Institute	
15	504	B	Where are self-closing doors required on a MODU?	In the galley	In each stairtower	To each sleeping room	To the engine room	
15	505	D	Part of the required equipment for a lifeboat includes _____.	a boathook	painter	whistle	all of the above	
15	506	D	What is the percentage of oxygen in a typical sample of uncontaminated air?	12%	15%	18%	21%	
15	507	D	A man has suffered a burn on the arm. There is a reddening of the skin but no other apparent damage. This is an example of what kind of burn?	Minor burn	Superficial burn	Extremity burn	First degree burn	
15	508	A	Chemical foam is most suitable for use on a fire involving _____.	oil	burning insulation	hot bulkheads	electrical machinery	
15	509	A	For an upright vessel, draft is the vertical distance between the keel and the _____.	waterline	freeboard deck	Plimsoll mark	amidships section	
15	510	D	Which of the following operations aboard a tanker must be recorded in the Oil Record Book on a tank-to-tank basis according to Coast Guard Regulations?	Any internal transfer of oil cargo during a voyage.	The discharge overboard in port or at sea of any bilge water accumulated in machinery spaces.	The loading or unloading of any or all oil cargo.	All of the above.	
15	511	A	An explosive mixture containing air with a maximum concentration of vapor, is capable of ignition when it is at the _____.	flammable range	rich point limit	autoignition point	upper explosive limit	
15	512	C	Fuel oil tank vents must be fitted with corrosion resistant screens to prevent _____.	escape of flammable vapors	entry of sea water	flames entering the tank	damage to the ball check	
15	513	C	Clean air standards, referred to as "Grade D", apply to compressed air for use in _____.	high pressure fluid accumulators	driving air powered plunger pumps	filling open circuit breathing systems	bladder type accumulators	
15	514	B	Each ventilation system for an enclosed classified location on a MODU must provide a complete change of air every _____.	three minutes	five minutes	seven minutes	ten minutes	

15	515	C	Which of the following statements is true regarding the operational testing and inspecting of a cargo vessel's lifesaving equipment by the ship's force?	On all vessels, regardless of voyage duration, the entire steering gear, whistle, and bridge-engine room communication systems must be tested within 12 hours of departure.	All emergency lighting and power systems, regardless of source, must be operated and tested at least once each week under load for at least 2 hours.	Where motor-propelled lifeboats are carried, regardless of length or person capacity, each lifeboat motor must be operated ahead and astern at least 3 minutes once a week.	All of the above.	
15	516	C	When amendments are made to the shipboard oil pollution emergency plan, the revisions must be submitted to the Coast Guard _____.	one month prior to the anniversary date of the plan	six months prior to the end of the approval period	and cannot be implemented without approval	and can be implemented without immediate approval as long as final approval is received within six months of submittal	
15	517	C	First, second, and third degree burns are classified according to _____.	area of the body burned	source of heat causing the burn	layers of skin affected	size of the burned area	
15	518	A	Aqueous Film Forming Foam (AFFF), commonly known as "light water", is especially suitable for fighting _____.	oil fires in the engine room bilges	class B fires in paint lockers	any class D fire	all of the above	
15	519	D	After transferring a weight forward on a vessel, the draft at the center of flotation will _____.	change, depending on the location of the LCG	increase	decrease	remain the constant	
15	520	A	The Oil Record Book must be maintained onboard the vessel for _____.	not less than 3 years and be readily available for inspection	6 months and then submitted to the nearest Marine Safety Office for review	an annual inspection	the duration of the ship's active employment	
15	521	B	The Upper Explosive Limit (UEL) of a mixture of flammable vapors and air, is defined as _____.	the concentration above which just enough flammable vapor exists to produce an explosion	the concentration above which the mixture is too rich to burn	the percentage of flammable vapor by volume in the air sufficient to create an explosion	the percentage of oxygen present in the air sufficient to support combustion	
15	522	A	Fuel oil tank vents are fitted with corrosion resistant screens to prevent _____.	flames entering through the tank vent	escape of flammable vapors	corrosion in the tank vent	damage to the ball check	
15	523	C	On a MODU, if there is a probability of encountering hydrogen sulfide during the drilling of a well, air movers (bug blowers) should be installed to dilute the concentration of gas at the _____.	pipe rack	crown block	shale shaker	all of the above	
15	524	D	The approval period for a shipboard oil pollution emergency plan expires after _____.	one year	two years	four years	five years	
15	525	D	According to Coast Guard Regulations (46 CFR), the fuel tanks of motor-propelled lifeboats shall be _____.	emptied and gas freed when the ship is drydocked	constructed so as to be completely spill proof	hydrostatically tested at each inspection for certification	emptied and the fuel changed at least once each year	
15	526	D	For hydrogen sulfide detection, sensitized tapes indicate the presence of this gas by means of discoloration of an exposed spot on the tape. The shade of the color on the spot depends upon the concentration of the gas and _____.	air temperature during exposure	air pressure during exposure	humidity during exposure	duration of exposure	
15	527	C	When treating a person for third degree burns, you should _____.	submerge the burn area in cold water	make the person stand up and walk to increase circulation	cover the burns with thick sterile dressing	break blisters and remove dead tissue	

15	528	A	According to Coast Guard Regulations (46 CFR), a bulkhead capable of preventing the passage of smoke and flame for one hour would be classified as a/an _____.	A-60	B-60	C-60	D-60	
15	529	A	The average of the observed drafts is known as _____.	mean draft	true mean draft	mean of the calculated drafts	draft at the center of flotation	
15	530	A	U.S. flag ships may obtain an Oil Record Book from the _____.	Local MSO/COTPs/MIO's	Environmental Protection Agency	local courthouse	U.S. Customs Agency	
15	531	D	A fire is considered "under control" when _____.	all hands are at their fire stations	all firefighting equipment is at the scene	the fixed systems are activated	the fire is contained and no longer spreading	
15	532	B	Which of the devices listed is designed to prevent flames from entering through fuel tank vents?	Ball check	Flame screen	Spark arrester	Flame inhibitor	
15	533	B	The hand brake of a lifeboat winch is _____.	manually disengaged when hoisting a boat	applied by dropping the counterweighted lever	controlled by the centrifugal brake mechanism	automatically engaged if lowering speed is excessive	
15	534	C	Each hose in the fuel transfer system for helicopter refueling must meet the standards of the _____.	Federal Aviation Administration	Corps of Engineers	National Fire Protection Association	National Transportation Safety Board	
15	535	A	Each hose in the fuel transfer system for helicopter refueling must have a _____.	static grounding device	quick-disconnect nozzle	splash guard	vapor recovery system	
15	536	D	The centrifugal brake mechanism incorporated in a lifeboat handling winch is intended to _____.	automatically stop the boat if electric power fails	mechanically stop the boat when the hand brake fails	hold the load suspended during lowering operations	automatically control the speed of lowering by gravity	
15	537	A	For small first degree burns the quickest method to relieve pain is to _____.	immerse the burn in cold water	administer aspirin	apply petroleum jelly	apply a bandage to exclude air	
15	538	D	A cutoff valve in the fire main system of a MODU may be closed to protect a portion of the system on an exposed deck from _____.	damage from crane operations	being used for washdown purposes	accidental diversion of flow to wrong location	freezing	
15	539	A	When flooding occurs in a damaged vessel, reserve buoyancy _____.	decreases	remains the same	increases	shifts to the low side	
15	540	C	Which of the following gases is the most dangerous to personnel safety in confined atmospheres, as it is absorbed by the blood 300 times more quickly than oxygen?	Hydrogen	Carbon dioxide	Carbon monoxide	Ammonia	
15	541	B	The vertical distance between "G" and "M" of a MODU is used as a measure of _____.	stability at all angles of inclination	initial stability	stability at angles less than the limit of positive stability	stability at angle less than the downflooding angle	
15	542	C	A device for preventing sparks or flames from entering a tank, yet permitting the free passage of gases is _____.	gas absorption detector	pressure-vacuum relief valve	flame screen	sacrificial anode	
15	543	C	A shipboard oil pollution emergency plan is required of _____.	all vessels, regardless of size and commercial application	any barge or other ship which is constructed or operated in such a manner that no oil in any form can be carried aboard	an oil tanker of 150 gross tons or above, or other ship of 400 gross tons or above	an oil tanker of 400 gross tons and above, or other ships of 150 gross tons and above	
15	544	C	For a MODU not on an international voyage, an approved substitute for an impulse projected rocket type line throwing appliance is a _____.	spring-loaded line thrower	hand thrown buoyant line	shoulder type throwing gun	heaving line	
15	545	B	Each liferaft container without an indicated maximum stowage height must be stowed at a height not more than _____.	3 meters (10 feet) above the waterline	18 meters (59 feet) above the waterline	indicated on the vessels certificate of inspection	required by the vessels station bill	

15	546	C	An inflatable liferaft should be lifted back aboard the ship by using _____.	the single hook at the top of the raft	two lines passed under the raft	the towing bridle	all of the above	
15	547	A	A victim has suffered a second degree burn to a small area of the lower arm. Which of the following statements represents the proper treatment for this injury?	Immerse the arm in cold water for 1 to 2 hours, apply burn ointment, and bandage.	Open any blisters with a sterile needle, apply burn ointment, and bandage.	Apply burn ointment, remove any foreign material, and insure that nothing is in contact with the burn.	Immerse the arm in cold water for 1 to 2 hours, open any blister, and apply burn ointment.	
15	548	C	Of the required ring life buoys for a MODU, how many must be equipped with a waterlight?	1	2	4	8	
15	549	B	Reserve buoyancy is the _____.	unoccupied space below the waterline	volume of intact space above the waterline	excess of the buoyant force over gravitational force	difference between buoyancy in salt and fresh waters	
15	550	D	When making entries in the Oil Record Book, the date, operational code, and item number shall be inserted in the appropriate columns. Furthermore, the required particulars shall be _____.	recorded only for accidental oil discharges	recorded only for operations involving discharge of oily waste	signed by the oiler who enters them in the Oil Record Book	recorded chronologically in the blank space	
15	551	C	Adding the transverse free surface correction to the uncorrected height of the center of gravity of a MODU yields _____.	"FSCT"	"KG"	"KGT"	"GMT"	
15	552	A	A fine mesh wire screen is fitted to tank vent pipes to prevent _____.	passage of flames into the tank	entry of rodents into the tank	debris stopping up the vent pipe	embers from a fire entering the tank	
15	553	C	Which of the toxic gases listed is a product of incomplete combustion, and is often present when a fire burns in a closed compartment?	Carbon dioxide	Hydrogen sulfide	Carbon monoxide	Nitric oxide	
15	554	B	On a MODU, how many ring buoys are required to have a buoyant line attached?	One ring life buoy.	One ring life buoy on each side of the MODU.	Three ring life buoys.	Two ring life buoys on each side of the MODU.	
15	555	B	What is the minimum required number of ring life buoys on a MODU?	4	8	12	16	
15	556	A	Spontaneous combustion is most likely to occur in _____.	rags soaked in linseed oil	overloaded electrical circuits	dirty swabs and cleaning gear	partially loaded fuel tanks	
15	557	B	Surface burns should first be treated by _____.	washing the area with a warm soap and water solution	flooding, bathing, or immersing the area in cold water	covering the area with talcum powder and bandaging tightly	leaving them exposed to the atmosphere	
15	559	C	The difference between the average of the forward and aft drafts is _____.	list	heel	trim	flotation	
15	560	C	Each fireman's outfit and its spare equipment on a MODU must be stowed _____.	in a locked cabinet in the machinery space	in an unlocked cabinet in the machinery space	in a separate and accessible location	at a fire hydrant location	
15	561	C	Adding the longitudinal free surface correction to the uncorrected height of the center of gravity of a MODU yields _____.	"FSCL"	"KG"	"KGL"	"GML"	
15	562	C	Why are flame screens an important safety device?	They provide a "dead air space" within a fuel tank.	They accelerate the dispersal of fuel vapors.	They prevent the passage of flames from or into closed spaces.	They smother flames once a fire has been started.	
15	563	D	The spread of fire can be prevented by _____.	cooling surfaces adjacent to the fire	removing combustibles from the endangered area	shutting off the oxygen supply	all of the above	
15	564	B	A branch line valve of a fixed fire extinguishing system on a MODU must be marked with the _____.	maximum pressure allowed at that branch	name of the space or spaces which it serves	date of the last maintenance inspection	pressure needed to maintain an effective stream at that point	

15	565	A	Most fire and explosions occur in a fuel tank _____.	during fueling when the fuel first strikes the tank bottom	during fueling when fuel strikes fuel already in the tank	when underway as the fuel is moved by wave action	shortly after fueling when fuel vapors are released and accumulated	
15	566	C	Spontaneous combustion is a result of _____.	an outside heat source heating a substance until it ignites	conduction of heat through a wall of material to the substance	chemical reactions within a substance	All of the above.	
15	567	D	If a crewman suffers a second degree burn on the arm, you should _____.	drain any blisters	apply antiseptic ointment	scrub the arm thoroughly to prevent infection	immerse the arm in cold water	
15	568	A	On a MODU, a cabinet or space containing the controls or valves for the fixed firefighting system must be _____.	posted with instructions on the operation of the system	ventilated and equipped with explosion-proof switches	painted with red and black diagonal stripes	equipped with a battery powered source of emergency lighting	
15	569	B	In the absence of external forces, adding weight to one side of a floating vessel, will cause the vessel to _____.	heel until the angle of loll is reached	list until the center of buoyancy is aligned vertically with the center of gravity	trim to the side opposite TCG until all moments are equal	decrease draft at the center of flotation	
15	570	D	Each completed page of the Oil Record Book must be signed by the _____.	engineer on watch	Chief Engineer	Chief Mate	Master	
15	571	B	Subtracting the height of the center of gravity corrected for transverse free surface effects from the height of the transverse metacenter of a MODU yields _____.	"GM"	"GMT"	"KGT"	"KMT"	
15	572	D	Flame screens must be maintained in good condition and fitted in the opening they protect in order to _____.	prevent flammable vapors from entering the tank	allow the escape of flammable vapors	contain flammable vapors within the tank	allow dissipation of heat from any flame	
15	573	A	To prevent the spread of fire by conduction, you should _____.	cool the bulkheads around the fire	remove combustibles from direct exposure	close all openings to the area	shut off all electric power	
15	574	C	On a MODU, the locker or space containing the self-contained breathing apparatus must be _____.	located in close proximity to the main control station	equipped with battery powered emergency lighting	marked "SELF-CONTAINED BREATHING APPARATUS"	all of the above	
15	575	D	Each hand portable fire extinguisher carried on a MODU must be marked with _____.	the name of the unit on which it is located	the date that it was installed on the unit	the names of the individuals qualified to use it	an identification number different from other extinguishers on the unit	
15	576	A	Each emergency light on a MODU must be marked with _____.	the letter "E"	an arrow pointing to the nearest exit	a no smoking symbol	the word "DANGER"	
15	577	C	In treating a person for extensive first or second degree thermal burns it is important to prevent or reduce _____.	disfigurement	infection	pain	asphyxia	
15	578	B	According to regulations, the capacity of a liferaft is required to be marked _____.	on the station bill	on a sign next to the liferaft	on the Certificate of Inspection	in the Operations Manual	
15	579	A	The difference between the starboard and port drafts caused by a transverse shift in weight is _____.	list	heel	trim	flotation	
15	580	C	In the Oil Record Book, a comprehensive list of operational items are grouped into operational sections. Each section is codified by a/an _____.	number	abbreviation	letter	all of the above	
15	581	B	Subtracting the height of the center of gravity corrected for longitudinal free surface effects from the height of the longitudinal metacenter of a MODU yields _____.	"GM"	"GML"	"KGL"	"KML"	



15	582	D	On a MODU, when may a work vest be substituted for a required life preserver?	To replace a damaged life preserver.	For use during fire drills.	For use during boat drills.	At no time.	
15	583	B	A MODU must have a self-contained breathing apparatus to be used as protection from gas leaking from a refrigeration unit. To meet this requirement, you may use _____.	a gas mask certified by the Mine Safety and Health Administration	the same self-contained breathing apparatus required with the fireman's outfit	an oxygen breathing apparatus, provided that the device has been inspected within three years	a portable ventilation system that will provide a complete change of air every three minutes	
15	584	C	The litter on a MODU must be capable of _____.	carrying at least two injured persons	floating for at least two hours	being used on the types of helicopters serving the unit	all of the above	
15	585	A	Each buoyant work vest on a MODU must be _____.	Coast Guard approved	marked with the name of the unit	equipped with a waterlight	all of the above	
15	586	C	For use as protection from gas leaking from a refrigeration unit, each MODU must be equipped with a _____.	portable ventilation system	flame safety lamp	self-contained breathing apparatus	gas mask	
15	587	A	A minor heat burn of the eye should be treated by _____.	gently flooding with water	warming the eye with moist warm packs	laying the person flat on his back	mineral oil drops directly on the eye	
15	588	D	The immersion suit requirements for MODUs apply to units operating in the Atlantic Ocean _____.	above 20 degrees North and below 20 degrees South	above 25 degrees North and below 25 degrees South	above 30 degrees North and below 30 degrees South	above 32 degrees North and below 32 degrees South	
15	589	C	With no environmental forces acting on the vessel, the center of gravity of an inclined vessel is vertically aligned with the _____.	longitudinal centerline	center of flotation	original vertical centerline	metacenter	
15	591	A	A MODU is inclined at an angle of loll. In the absence of external forces, the righting arm (GZ) is _____.	positive	negative	zero	vertical	
15	592	C	For each passenger vessel, the minimum number of immersion suits to be carried for each lifeboat is at least _____.	1	2	3	4	
15	593	D	The light on a personal flotation device on a MODU must be replaced _____.	when the power source is replaced	each year after installation	every six months	when it is no longer serviceable	
15	594	C	Each hand portable, semi-portable, and fixed fire extinguishing unit on a MODU must be tested and inspected at least once every _____.	six weeks	six months	twelve months	two years	
15	595	A	Each person on a MODU carrying immersion suits must wear the exposure suit in a boat drill, or participate in a drill which includes donning the suit and being instructed in its use at least once every _____.	month	two months	three months	six months	
15	596	C	In the event of a fire, the doors to a stairtower must be closed to prevent the spread of fire by _____.	ventilation	radiation	convection	conduction	
15	597	C	Severe airway burns will cause _____.	nausea	reddening of cheeks	complete obstruction of respiratory passages	nosebleed	
15	598	D	Which of the listed substances is susceptible to spontaneous combustion?	Coal	Scrap rubber	Leather	All of the above	
15	599	C	With no environmental forces present, the center of gravity of an inclined vessel is vertically aligned with the _____.	longitudinal centerline	center of flotation	original vertical centerline	center of buoyancy	
15	600	D	How are line shaft bearings usually lubricated?	Gravity feed	Pressure feed	Oil lubricating disks	Oil lubricating rings	
15	601	B	Burning diesel oil should be treated as which class of fire?	Class "A"	Class "B"	Class "C"	Class "D"	
15	602	B	The required periodic inspection of MODU lifeboat winch control apparatus must include _____.	removal of electrical enclosure covers	removal of drain plugs from electrical enclosures	replacement of limit switches	disconnecting emergency switches	

15	603	C	Which of the listed characteristics applies to a semi-portable CO2 system?	Each cylinder must weigh less than 50 pounds (22.7 kg).	The cylinders are mounted horizontally.	It has a portable hose and nozzle.	It has distribution piping installed permanently.	
15	604	B	If your vessel has a starboard list after taking on fuel, you would transfer fuel _____.	to starboard	to port	forward	aft	
15	605	C	During the required periodic boat drill aboard a MODU, each person not assigned duties as per the station bill is _____.	instructed in the use of portable fire extinguishers	shown a video demonstrating lifeboat launching	instructed in the use of life preservers	not required to attend the boat drill	
15	606	C	Which is the best way to ensure adequate oxygen is present for safe entry into a seldomly used cargo tank?	Test tank atmosphere with a combustible gas indicator.	Observe the amount of rust deposited on the tank's surface.	Ventilate the tank with fresh air and test with an oxygen indicator.	Open the manhole cover for approximately ten minutes.	
15	607	B	The FIRST action in the treatment of a person suspected of having airway burns is to _____.	move him to a cool location	confirm and maintain an open airway	apply cool damp dressing to his neck	have him drink cool liquids	
15	608	B	Halon 1301 enters the fire area as a _____.	powder	gas	pellet	glassy slag	
15	609	D	You are involved in an emergency landing of a helicopter on the water. You should inflate your life jacket _____.	upon entering the helicopter	prior to reaching the water	after reaching the water, but prior to exiting the helicopter	after exiting clear of the helicopter	
15	610	C	If the metacentric height is large, a floating MODU will _____.	be tender	have a slow and easy motion	be stiff	have a tendency to yaw	
15	611	B	A fire in the paint locker would probably be _____.	Class A	Class B	Class C	Class D	
15	612	C	The person-in-charge of a MODU shall insure that the fuel tank of each motor-propelled lifeboat is emptied, and the fuel is changed at least once every _____.	three months	six months	twelve months	twenty-four months	
15	613	D	The latch shown in the illustration is used to lock the _____.	all-purpose nozzle in a solid stream position	portable foam nozzle in the open position	cylinder control valve on a CO2 system	hose reel type CO2 horn in the open position	See illustration number(s): SF-0017
15	614	C	A vessel would most likely develop a list if you were _____.	burning fuel from a centerline tank	using water from two equally sized tanks on either side of the centerline simultaneously	using fuel from tanks on the port side only	using water from the fore peak tank	
15	615	A	On a MODU, each lifeboat radio transmitter must be tested at least once _____.	each week	every two weeks	each month	every two months	
15	616	C	The person-in-charge shall insure that each lifeboat on a MODU is lowered to the water, launched, and operated at least once every _____.	month	two months	three months	six months	
15	617	B	The most effective first aid treatment for chemical burns is to immediately _____.	apply ointment to burned area	flood the affected area with water	wrap the burn with sterile dressing	apply an ice pack to the burned area	
15	618	B	Which of the following statements is true concerning the Halon 1301 fire extinguishing agent?	The agent is highly toxic at normal room temperature.	The agent by weight is more effective than CO2.	Halon extinguishes the fire by smothering.	The agent can not be used on electrical fires as it leaves a residue.	
15	619	A	The person-in-charge on a MODU shall insure that each rechargeable battery for each lifeboat radio is fully charged at least _____.	once each week	once every two weeks	once each month	once every two months	
15	620	C	Each EPIRB required on a MODU shall be tested using the integrated test circuit and output indicator every _____.	week	two weeks	month	two months	
15	621	C	How often must the emergency generator be tested on a mobile offshore drilling unit?	Once each day	Once each week	Once each month	Once each year	
15	622	B	Each emergency generator on a mobile offshore drilling unit, when tested, must be run under a full load for at least _____.	one hour	two hours	ten hours	four hours	

15	623	D	If the empty weight of a B-III semi-portable CO2 fire extinguisher is 35 lbs (15.9 kg), what is its full charged weight?	47 lbs (21.3 kg)	50 lbs (22.7 kg)	55 lbs (24.9 kg)	70 lbs (31.7 kg)	
15	624	D	If a vessel initially has no list and no significant trim, which of the developments shown in the illustration will result in the greatest list?	A	B	C	D	See illustration number(s): SF-0025
15	625	B	The fireman outfits required for MODUs are not to be used for any other purpose except for _____.	the oxygen and explosion meter when it is used for detection of flare gases	the self contained breathing apparatus, when used as protection from gas leaking from a refrigeration unit	the boots and gloves that are made of rubber or electrically non-conductive material, if used when repairing electrical equipment	the lifeline, if used by personnel entering a compartment which might be deficient of oxygen	
15	626	A	If a boiler has been laid up dry for an extended period, it will be unsafe to enter the steam and water drum immediately after it has been opened, as there may be _____.	insufficient oxygen to support life	a heavy concentration of sewer gas	excessive carbon dioxide in the drum	toxic gases from organic decomposition	
15	627	A	When treating a chemical burn, you should flood the burned area for at least _____.	five minutes	ten minutes	fifteen minutes	twenty minutes	
15	628	C	How should a Halon fire extinguisher be used to extinguish an electrical fire?	Apply by bouncing agent off nearby bulkheads.	Use a quick sweeping motion towards the base of the fire.	Always direct discharge at the source of the fire.	It shouldn't be used on an electrical fire.	
15	629	B	How many people onboard a MODU must be trained in the use of the fireman's outfit?	one person	two people	three people	four people	
15	630	B	Which of the following types of bearings is designed to limit end movement and carry loads applied in the same direction as the shaft axis?	Rigidly mounted reduction gear bearing	Segmental pivoted-shoe thrust bearing	Self-aligning radial bearing	Spherically-seated radial bearing	
15	631	B	A fire in a fuel oil settling tank is a _____.	Class A fire	Class B fire	Class C fire	Class D fire	
15	632	C	Fire axes required on MODUs must be stored in the enclosure for fire hoses with the location marked " _____."	Fire Axe Location	Hose Station No. _____	Fire Station No. _____	Firefighting Equipment	
15	633	C	If not attached to the nozzle, each low velocity spray applicator on a MODU must be stowed _____.	in a protected area on the main deck	inside a machinery space near the entrance	next to the fire hydrant to which the fire hose is attached	on a rack inside the quarters near the entrance	
15	634	B	If fuel oil is burned from the port side tanks alone, the ship will _____.	go down by the head	list to starboard	trim by the stern	list to port	
15	635	C	In addition to the lifejackets stowed in places that are readily accessible, lifejackets must be stowed at _____.	the mess room	each lifeboat	each manned watch station	each fire station	
15	636	C	Before entering any space that has been sealed, its oxygen level should be tested. What level of oxygen in the space is equal to fresh air?	18.00%	19.80%	20.80%	21.80%	
15	637	A	Chemical burns are caused by the skin coming in contact with _____.	acids or alkalis	diesel oil	acids, but not alkalis	alkalis, but not acids	
15	638	C	Which of the following statements is true concerning the Halon 1301 fire extinguishing agent?	The agent is highly toxic as stored in pressurized cylinders.	The agent is less effective than carbon dioxide.	Halon extinguishes the fire by a chain breaking reaction.	The agent can not be used on electrical fires because it leaves a residue.	
15	639	B	Each distress signal and self-activated smoke signal must be replaced not later than the marked date of expiration, or from the date of manufacture, not later than _____.	12 months	24 months	36 months	42 months	

15	640	C	If a line shaft bearing begins to overheat the shaft speed should be reduced. If overheating persists, you should then _____.	increase lube oil pressure to the bearing	decrease lube oil pressure to the bearing	apply emergency cooling water externally to the bearing	flood the bearing with a higher viscosity oil to provide emergency lubrication and cooling	
15	641	A	The material or substance involved in a class "B" fire can be burning _____.	diesel oil	magnesium	dunnage	electrical insulation	
15	642	C	A qualified person must be assigned as the second in command of a lifeboat on a MODU if the lifeboat has a capacity of more than _____.	20 persons	30 persons	40 persons	50 persons	
15	643	C	The master or person-in-charge of a MODU shall insure that each deck from which lifeboats are launched is _____.	surfaced with a nonskid texture	roped off to prevent unnecessary access	kept clear of any obstructions that would interfere with launching	posted with a list of persons assigned to the lifeboat	
15	644	D	Plugged limber holes can endanger a ship's stability by _____.	decreasing off center weight	increasing water area on the keelson	preventing the free surface effect	preventing water from draining to the bilge well	
15	645	B	1 life preserver or buoyant work vest is required to be worn on a MODU when a person is _____.	working on the rig floor	working over water	working on the pipe racks	operating line throwing equipment	
15	646	C	According to regulations, the master or person-in-charge of a MODU is required to submit a report of a loss of life _____.	only when it happens while underway	to the next of kin	to the nearest Marine Safety or Marine Inspection Office	to the nearest coroner	
15	647	D	Which of the following precautions should be taken when treating burns caused by contact with dry lime?	Water should be applied in a fine spray.	The burned area should be immersed in water.	The entire burn area should be covered with ointment.	Before washing, the lime should be brushed away gently.	
15	648	D	Which of the fire extinguishing agents listed uses a chain breaking action to put out a fire?	Halon 1211	Halon 1301	Purple K	All of the above	
15	649	B	At the required fire drill conducted aboard a MODU, all persons must report to their stations and demonstrate their ability to perform the duties assigned to them _____.	by the toolpusher	in the station bill	by the person conducting the drill	at the previous safety meeting	
15	650	B	The person on a MODU who is responsible for maintaining the engineering spaces in a clean and sanitary condition is the _____.	master, or person-in-charge	chief engineer, or engineer-in-charge if no chief engineer is required	senior mechanic, or mechanic on duty if no senior mechanic designated	senior electrician, or electrician on duty if no senior electrician designated	
15	651	C	Which of the following would be considered a Class "B" fire?	Electrical fire in a motor	Waste rag fire in the engine room	Oil fire in the engine room bilges	Fire in the main switchboard	
15	652	C	Convection spreads a fire as a result of _____.	transmitting the heat of a fire through the ship's metal	burning liquids flowing into another space	heated gases flowing through ventilation systems	the transfer of heat across an unobstructed space	
15	653	B	The document certifying the correctness of the load line marks on a MODU is called the _____.	Certificate of Inspection	Load Line Certificate	Certificate of Documentation	SOLAS Certificate	
15	654	D	A load line is assigned to a MODU to insure adequate stability and _____.	mooring tension	riser tension	lifesaving equipment	structural strength	
15	655	C	Compliance with the terms of the load line certificate on a MODU is the responsibility of the _____.	Ballast Control Operator	Barge Supervisor	Master or Offshore Installation Manager	Operator representative	
15	656	D	Periodic surveys to renew the load line assignment for a MODU must be made at intervals not exceeding _____.	18 months	two years	three years	five years	
15	657	C	If a person is unconscious as a result of an electric shock, you should first remove the victim from the electrical source and then _____.	administer ammonia smelling salts	check for serious burns on the body	determine if he/she is breathing	massage vigorously to restore circulation	
15	658	B	Modern fire fighting agents, such as Halon and Purple K, suppress the fire by _____.	dissipating heat	breaking the chain reaction	removing the fuel	all of the above	

15	659	C	Under the regulations implementing MARPOL, a mobile offshore drilling unit is required to have an International Oil Pollution Prevention (IOPP) certificate when the unit _____.	is drilling on the Outer Continental Shelf	moves to a new drilling location in U.S. waters	engages in a voyage to a port of another country which is a party of MARPOL	All of the above	
15	660	B	The International Oil Pollution Certificate required by MARPOL is issued to U.S. flag MODUs by the _____.	International Maritime Organization	U.S. Coast Guard	American Bureau of Shipping	Environmental Protection Agency	
15	661	B	Burning paint, turpentine, or grease would be an example of which of the following classes of fire?	Class A	Class B	Class C	Class D	
15	662	D	The International Oil Pollution Prevention Certificate on a MODU is valid for a period of _____.	one year from the date of issue	two years from the date of issue	three years from the date of issue	four years from the date of issue	
15	663	B	Who is responsible for reporting a casualty for a mobile offshore drilling unit?	The pilot.	The owner.	The surveyor.	The engineer.	
15	664	B	Who shall insure that all records required by regulations are retained onboard a mobile offshore drilling unit involved in a casualty?	Officer-in-Charge, Marine Inspection	Owner	Pilot	Engineer	
15	665	D	In the event of a casualty to a MODU, who is responsible to make records available to the Coast Guard official authorized to investigate the casualty?	Officer-in-Charge, Marine Inspection	The person who caused the casualty	The company man	The owner	
15	666	B	The master or person-in-charge of a MODU is required to submit a casualty report of an international grounding under what condition?	At the owner's discretion	If it creates a hazard to navigation	If the grounding lasts over 48 hours	Under any condition	
15	667	B	Since electrical burn victims have been subjected to electric shock, the FIRST medical response is to check for _____.	indication of broken bones	breathing and heartbeat	location of burns	bleeding injuries	
15	668	C	Halogenated fire extinguishing agents such as Halon 1301 extinguish fires by _____.	cooling	producing excess CO2	breaking the chain reaction	foaming action	
15	669	A	The master or person-in-charge of a MODU is required to submit a casualty report of an intentional grounding when _____.	it creates a hazard to the vessel	it will last longer than 24 hours	it will last longer than 48 hours	it occurs in international waters	
15	670	A	In the case of an injury, causing a person to be incapacitated for more than 72 hours, the master or person-in-charge of a mobile offshore drilling unit must submit a report to _____.	the nearest Marine Safety or Marine Inspection Office	the nearest hospital	the Department of Energy	the American Bureau of the Shipping	
15	671	D	Which of the following substances is to be considered as fuel for a class "B" fire?	Wood	Rags	Electrical insulation	Fuel oil	
15	672	C	According to regulations, the master or person-in-charge of a MODU is required to submit a report of a loss of life _____.	only when it happens while underway	to the next of kin	to the nearest OCMI	to the nearest coroner	
15	673	A	Where would you find the FCC authorization for transmitting on your rig's EPIRB?	On the Ship Station License.	On the side of the EPIRB transmitter.	In the radio log.	On the Certificate of Inspection.	
15	674	D	After having activated the emergency position indicating radio beacon, you should _____.	turn it off for five minutes every half-hour	turn it off and on at five minute intervals	turn it off during daylight hours	leave it on continuously	
15	675	A	What should you do with your emergency position indicating radio beacon if you are in a liferaft during storm conditions?	Bring it inside the liferaft and leave it on.	Bring it inside the liferaft and turn it off until the storm passes.	Leave it outside the liferaft and leave it on.	Leave it outside the liferaft but turn it off.	
15	676	D	How often is the line throwing appliance required to be tested on a mobile offshore drilling unit?	Once a month	Once a year	Once a week	Once every four months	
15	677	C	When a rescuer discovers a burn victim in the vicinity of electrical equipment or wiring, his first step is to _____.	flush water over any burned area of the patient	apply ointment to the burned areas on the patient	shutdown electrical power in the area	remove the patient from the vicinity of the live electrical equipment or wiring	

15	678	A	Which of the listed precautions should be taken when testing a line throwing gun?	Never remove the line from the rocket.	Fire it at an angle of approximately 90 degrees to the horizon.	Wear asbestos gloves.	All of the above.	
15	679	D	You are in a survival craft broadcasting a distress message. What information would be essential to your rescuers?	The nature of the distress.	The time of day.	Your radio call sign.	Your position by latitude and longitude.	
15	680	A	During an evacuation from a MODU, an individual without the option of a survival craft or liferaft should enter the water on the leeward side, except when _____.	there is burning oil on the water	there is a rescue craft in the area	water temperature is below 40°F	a rigid survival craft is in the area	
15	681	B	A class "B" fire would most likely occur in the _____.	main switchboard	engine room bilge	breathing compartment	electric fresh water transfer pump	
15	682	A	The component shown in the illustration would be installed in which of the following types of fire detection systems?	Fixed temperature	Rate-of-rise	Combined fixed temperature and rate-of-rise	Line type pneumatic	See illustration number(s): SF-0004
15	683	B	During an evacuation from a MODU, an individual without the option of a survival craft or liferaft should enter the water on the leeward side, except when _____.	there is a rescue craft in the area	there is hydrogen sulfide present	water temperature is below 40°F	a rigid survival craft is in the area	
15	684	C	During an evacuation from a MODU, an individual without the option of a survival craft or liferaft should enter the water on the leeward side, except when _____.	there is a rescue craft in the area	water temperature is below 40°F	there is a severe list to the windward side of the MODU	a rigid survival craft is in the area	
15	685	A	With no alternative but to jump from a MODU, the correct posture should include _____.	holding down the lifejacket against the chest with one arm crossing the other, covering the mouth and nose with a hand, and feet together	knees bent and held close to the body with both arms around legs	body straight and arms tightly at the sides for feet first entry into the water	both hand holding the lifejacket below the chin with knees bent and legs crossed	
15	686	B	After being launched from a MODU, a totally enclosed survival craft which has been afloat over a long period of time, requires _____.	frequent opening of hatches to permit entry of fresh air	regular checks of bilge levels	use of ear plugs to dampen engine noise	frequent flushing of the water spray system with fresh water	
15	687	C	Basic emergency care for an electrical burn is to _____.	flood the burn with water for two minutes	brush away the charred skin and wrap the burned area	cover the burned area with a clean cloth and transport the patient to a medical facility	apply ointment or spray to the burned area and wrap with a clean cloth	
15	688	A	On offshore drilling units, the lifeboat fuel tanks must be emptied and the fuel changed at least once every _____.	12 months	24 months	36 months	48 months	
15	689	D	Who is charged with appointing persons to be in command of the lifeboats and/or liferafts on a mobile offshore drilling units?	Rig superintendent	Toolpusher	Company man	Designated person-in-charge	
15	690	A	A self-righting survival craft will return to an upright position provided that all personnel _____.	are seated with seatbelts on and doors shut	are seated with seatbelts on and doors open	are to shift to one side to right it	escape from the craft	
15	691	B	Which of the following classes of fire would probably occur in the fireroom bilges?	Class A	Class B	Class C	Class D	
15	692	D	In a typical automatic fire alarm system, which of the listed actions will cause an indication of a fire to be given in the annunciator cabinet?	A rise in temperature will activate the thermostat.	The fire alarm test push-button is operated.	A manual fire alarm box is activated.	All of the above.	
15	693	A	The purpose for the bag or box on top of some survival craft is to _____.	right it in case of capsizing	increase area for radar detection	act as a sail in case of a power loss	steady the craft in heavy seas	
15	694	D	Who is responsible for lowering the survival craft?	Roustabout	First man aboard	Last man aboard	Helmsman	

15	695	B	To activate an air regeneration canister on a survival craft, you _____.	put it into a container of water	tear off the tabs on the canister	turn it upside down	push "on" button	
15	696	D	The air regeneration canister on a survival craft is designed to _____.	assist in cold starting the engine	fill the accumulator bottles	help start the engine	remove carbon dioxide and provide oxygen	
15	697	A	A patient has an electrical burn, after checking breathing and pulse, _____.	look for a second burn, which may have been caused by the current exiting the body	locate the nearest water source and flood the burn with water for five minutes	remove any dirt or charred skin from the area of the burn	apply ointment to the burn area and wrap with clean cloth	
15	698	A	The air regeneration canister on a survival craft should last approximately _____.	one hour	two hours	three hours	four hours	
15	699	C	When abandoning a MODU, following the launching of the survival craft you should _____.	plot a course for the nearest land	take a vote on which direction you should go	stay in the immediate area	go one direction until fuel runs out	
15	700	B	When the scuppers are plugged and an oil spill occurs on deck, you should _____.	remove scuppers and wash fuel overboard with water	use absorbent material, such as sawdust, to clean up the spill	remove scuppers to allow the spill to run overboard and wipe the area dry with rags	remove scuppers and wash the fuel overboard with a solvent	
15	701	A	On a tank vessel, which of the following substances would be burning in a class "B" fire?	Oil	Wood	Rags	Electrical wiring	
15	702	D	Fire detecting systems on merchant vessels may be arranged to sense _____.	smoke	rate of temperature rise	ionized particles	all of the above	
15	703	A	Normally fire hose should be stowed with the _____.	female end connected to the fire hydrant	male end attached to the fire hydrant	female end connected to the nozzle	female end and nozzle arranged to be quickly run out to the fire	
15	704	C	To prevent the spread of fire by convection _____.	cool the bulkhead around the fire	remove combustibles from direct exposure	close all openings to the area	shut off all electrical power	
15	706	D	If help has not arrived in 10-12 hours after having abandoned a MODU in a survival craft, you should _____.	go in one direction until the fuel runs out	plot course for the nearest land	take a vote on which direction you should go	shutdown the engines and set the sea anchor	
15	707	A	Treatment of heat exhaustion should consist of _____.	moving to a shaded area and laying down	bathing with rubbing alcohol	placing patient in a tub of cold water	All the above	
15	708	C	Dry chemical extinguishing agents are effective when used _____.	with any foam extinguishing agents	strictly in a cooling capacity	with any other dry chemical extinguishing agents	on materials that contain their own oxygen	
15	709	A	Steering a survival craft broadside to the sea could cause it to _____.	capsize	run smoother	run faster	sink	
15	710	B	If an oil spill occurs on deck, you should _____.	cover the area with foam	cover the area with absorbent material	wash down immediately with a fire hose	wash down immediately with an oil dispersing solvent	
15	711	D	Which of the listed burning materials would be described as a class "B" fire?	Acetylene	Lube oil	Grease	All of the above	
15	712	C	In a typical automatic fire alarm system, all zone circuits are always connected _____.	in parallel	in series	to the detecting cabinet	to the trouble alarm supervising resistor	
15	713	D	Properly stowed fire hose is either faked or rolled into a rack with the _____.	male and female ends connected together to prevent damage	female end available to be quickly connected to the hydrant	male end attached to the adjacent fire hydrant	nozzle end arranged to be easily run out to the fire	
15	714	A	In heavy seas the helmsman should steer the survival craft _____.	into the seas	broadside to the seas	in the same direction as the seas	in a series of figure-eights	
15	715	B	The breathing apparatus, shown in the illustration, may be suitable for use in atmospheres which _____.	are filled with 5% smoke	contain toxic refrigerant vapors	are oxygen deficient	all of the above	See illustration number(s): SF-0012

15	716	D	Radiation can spread a fire by _____.	transmitting the heat of a fire through the ship's metal	burning liquids flowing into another space	heated gases flowing through ventilation systems	the transfer of heat across an unobstructed space	
15	717	D	Which of the following conditions is a symptom of heat stroke _____.	cold and moist skin, high body temperature	cold and dry skin, low body temperature	hot and moist skin, high body temperature	hot and dry skin, high body temperature	
15	718	C	Dry chemical extinguishing agents extinguish a fire by _____.	cooling the fuel below ignition temperature	smothering and removing the oxygen from the fuel	breaking up the molecular chain reaction	removing the fuel by absorbing the heated vapors	
15	719	C	At a speed of six knots the fuel aboard a survival craft should last _____.	8 hours	12 hours	24 hours	48 hours	
15	720	C	In the event of a small bunker oil spill on deck occurring while fueling, you should _____.	wash down the area immediately with a fire hose	wash down the area with kerosene	cover the area with absorbent material	cover the area with foam	
15	721	B	A grade "E" petroleum product is _____.	a flammable liquid	a combustible liquid	kerosene	light fuel oil	
15	722	C	The source of power for the CO2 alarm is obtained from _____.	the emergency power and lighting bus	the general alarm 24 volt DC bus	the flow of CO2 under pressure	all of the above	
15	723	B	Fire hoses should always be stowed at the fire main in a manner which will allow _____.	all sections to be quickly connected	the nozzle end to be run out to the fire	all sections to be quickly drained	the nozzle and fittings to be easily and quickly inspected	
15	724	A	When the survival craft is supplied with bottles of compressed air, they are used for _____.	personnel air supply	additional flotation	priming the sprinkler system	filling the self-righting bags	
15	726	C	With the air supply on, the air pressure in the survival craft will be _____.	changing in relation to the speed of the craft	less than outside air pressure	greater than outside air pressure	equal to outside air pressure	
15	727	B	Which of the listed conditions is a symptom of sun stroke?	Temperature falls below normal, pulse is rapid and feeble, and skin is cold and clammy.	Temperature is high, pulse is strong and rapid, and skin is hot and dry.	Temperature is high, pulse is slow and feeble, and skin is clammy.	Temperature falls below normal, pulse is rapid, and skin is clammy.	
15	728	B	Which of the following statements is true concerning the fire extinguisher shown in the illustration?	The initial discharge of the extinguisher should be at close range to scatter the burning material.	The agent may be applied in short bursts by opening and closing the squeeze nozzle piece #1.	There is no danger of reflash in using the illustrated extinguisher on a class B fire.	The illustrated extinguisher must never be used in conjunction with water.	See illustration number(s): SF-0006
15	729	D	An "on-load" release system on a survival craft means the cable can be released _____.	only when the load is taken off the cable	only there is a load on the cable	only when activated by the controls at the lowering station	at any time	
15	730	A	Small oil spills on deck can be prevented from contaminating any waters by _____.	plugging all scuppers and drains	placing floating booms around the ship	regularly emptying all drip pans	thoroughly draining all bunkering hoses	
15	731	A	The "off-load" release system on a survival craft is designed to be activated _____.	when there is no load on the cable	when there is a load on the cable	only the doors are closed	when the engine is started	
15	732	C	When inspecting a survival craft, you should check to make sure that the _____.	sea anchor is deployed	hydraulic starting system has been drained	hydraulic pressure is within the specified range	steering controls are locked	
15	733	C	A fire hose should be stowed in its rack with the _____.	hose sections disconnected	foam nozzle attached	all-purpose nozzle attached	hose sections rolled separately	
15	734	A	Aboard a survival craft, ether can be used to _____.	start the engine in cold weather	aid in helping personnel breathe	prime the sprinkler system	prime the air supply	
15	736	D	The backup system on an electric start survival craft is a _____.	hydraulic system	pneumatic system	spare battery	hand crank	
15	737	A	Treatment of sunstroke consists principally of _____.	cooling, removing to shaded area and having the victim lay down	bathing with rubbing alcohol	drinking ice water	All of the above	



15	738	D	In a cartridge-operated dry chemical type fire extinguisher, when the CO2 cartridge is activated, the dry chemical is released from the extinguisher _____.	with the squeeze grip trigger on top of the container	by squeezing the control valve carrying handle	by turning the activating handle on the bottom of the container	with the squeeze-grip on/off nozzle at the end of the hose	
15	739	A	If the engine of a survival craft does not start, check to see _____.	if the fuel valve is open	if the air supply system is open	if the water sprinkler system is open	if the limit switch is on	
15	740	B	Small oil spills on deck may be prevented from entering the water by _____.	keeping the drip pans empty	plugging all scuppers and drains	placing floating booms alongside the ship	closing ullage openings between soundings	
15	741	C	If the survival craft is not loaded to full capacity, the personnel should be _____.	loaded more on port side to forward	loaded equally on both sides with more forward	loaded equally on both sides with more aft	allowed to sit anywhere	
15	742	C	When a rescue vessel approaches a survival craft in heavy seas, the person in charge of the survival craft should _____.	tie up to the rescue vessel	transfer only those personnel who are not seasick	wait for calmer weather before transferring personnel	transfer all personnel immediately	
15	743	A	Fire hoses located at protected fire stations, must always be _____.	connected to the fire hydrant	capped on the ends for protection	supplied with a smooth bore nozzle	open to the air to prevent rot	
15	744	D	When a helicopter is lifting personnel from a survival craft, the other individuals in the craft should _____.	enter the water in case the person being lifted slips from the sling	stand on the outside of the craft to assist the person being lifted	remove their lifejackets to prepare for their transfer to the helicopter	remain seated inside the craft to provide body weight for stability	
15	746	A	Using a sea anchor with the survival craft will _____.	reduce your drift rate	keep the survival craft from turning over	aid in recovering the survival craft	increase your visibility	
15	747	C	To effectively treat a person suffering from heat exhaustion, you should _____.	administer artificial respiration	put him in a tub of ice water	give him sips of cool saline solution	take his blood pressure	
15	748	C	When an electrical fire has been extinguished with a dry chemical agent, there is always a possibility of the _____.	machinery suffering thermal shock damage	fire being rekindled by spontaneous combustion	electrical contacts or relays being rendered inoperative	chemical crystals suffocating the fire fighter	
15	749	C	The survival craft engine is fueled with _____.	kerosene	unleaded gasoline	diesel oil	liquefied gas	
15	750	D	Which of the conditions listed is necessary for a substance to burn?	The temperature of the substance must be equal to or above its fire point.	The air must contain oxygen in sufficient quantity.	The mixture of vapors with air must be within the "explosive range."	All of the above.	
15	751	A	The sprinkler system of a survival craft is used to _____.	cool the craft in a fire	cool the engine	spray oil on the sea to calm it	spray personnel during a fire	
15	752	B	A right-handed propeller will cause the survival craft to _____.	walk the stern to starboard in reverse	walk the stern to port in reverse	run faster than a left-handed propeller	right the survival craft if capsized	
15	753	C	To properly maintain fire hoses, you should _____.	keep them rolled tightly in the rack with female coupling protected	keep exterior linings damp by periodic washdowns	thoroughly drain them after each use	keep them partially filled with fresh water	
15	754	A	During the towing of a survival craft, a lookout should be on station to _____.	release the towline in an emergency	help the helmsman steer	look for food and water	check water level in the bilge	
15	756	D	During an abandonment or drill, the first person to arrive at the survival craft should _____.	pass out food and water to personnel	open the doors and start the sprinkler system	activate the emergency release handle	open the doors and prepare the craft for boarding	
15	757	D	Which of the following methods should be used to prevent a class "A" fire in a topside compartment, with steel bulkheads, from spreading to the adjacent compartments?	Sweep all exterior surfaces with water water fog until the fire is reportedly extinguished.	Sweep all exterior surfaces with a solid stream of water until the fire is reportedly extinguished.	Sweep all exterior surfaces with a solid stream of water until steam is no longer produced, secure the nozzle, and repeat as necessary.	Sweep all exterior surfaces with water fog until steam is no longer produced, secure the nozzle, and repeat as necessary.	

15	758	C	The MAIN objection to the use of a dry chemical fire extinguisher on an electrical fire is that the _____.	extinguishing action is not as good as with soda acid	powder conducts electricity back to the fire fighter	dry chemical leaves a powder residue which may render electrical equipment inoperative	extinguisher will need to be recharged	
15	759	A	When using a handheld smoke signal aboard a survival craft, you should activate the signal _____.	on the downwind side of the craft	on the upwind side of the craft	inside the craft	at the stern of the craft	
15	760	D	The scuppers should be plugged _____.	only if fixed containment is not used	only if portable containment is not used	only if fixed containment drains are open	whenever the vessel is being fueled	
15	761	B	A class "C" fire would most likely occur in the _____.	engine room bilges	main switchboard	paint locker	rag bin	
15	762	B	When retrieving the survival craft, the winch operator should stop the winch and check _____.	that all personnel are seated in the craft	that the cable has not jumped any grooves on the drum	which way the wind is blowing	the hydraulic fluid level before lifting	
15	763	A	While retrieving the survival craft, the engine should be stopped _____.	when the craft clears the water	when the cable has been attached	on approach to the platform	at the embarkation	
15	764	D	When retrieving the survival craft, the helmsman should instruct the crewman to _____.	check the fuel level	open the doors	take the lifejackets off	check that hooks are fully locked in place	
15	766	A	Limit switches are located on the survival craft winch systems for MODUs to _____.	stop the winch just before the craft reaches final stowage position	limit the amount of cable on the drum	limit the ascent rate	stop the winch in case the craft weighs too much	
15	767	C	Physical exertion on the part of a person who has fallen into cold water can _____.	be the best thing to try if there were no rescue in sight	increase survival time in the water	increase the rate of heat loss from the body	not affect the heat loss from the body	
15	768	A	When fighting a fire with a portable dry chemical extinguisher you should always _____.	direct the stream of chemical toward the base of the fire	attack the fire from the leeward side	bounce the chemical onto the fire from adjacent structural members	spray the chemical across the tops of the flames	
15	770	C	Small oil spills on deck can be kept from contaminating the surrounding waters by _____.	driving wooden plugs into the vents	closing the lids on the vents	plugging the scuppers	keeping plugs in the sounding pipes	
15	771	D	A class "C" fire would occur in _____.	bedding	pipe insulation	paint	a generator	
15	772	A	All MODU personnel should be familiar with the survival craft _____.	boarding and operating procedures	maintenance schedule	navigational systems	fuel consumption rates	
15	773	C	Which of the following statements concerning fire hose couplings is true?	Fire hose couplings are strong and not easily damaged.	Fire hose couplings must be lubricated with oil.	Fire hose couplings can be easily damaged by dropping.	Fire hose couplings should be painted red.	
15	774	D	If water is rising in the bilge of a survival craft, you should first _____.	abandon the survival craft	check for cracks in the hull	shift all personnel to the stern	check the bilge drain plug	
15	776	C	The air cylinder bottles in the survival craft should be refilled with _____.	oxygen	nitrogen	compressed air	nitrogen and oxygen	
15	777	A	A crew member has suffered frostbite to the toes of both feet. You should _____.	immerse the feet in warm water	warm the feet with a heat lamp	warm the feet at room temperature	rub the feet to restore circulation	
15	778	B	The best way to effectively use a dry chemical type fire extinguisher in fighting a fire, is to _____.	discharge a stream horizontally and allow it to flow down evenly on all burning surfaces	discharge a stream at the base of the fire, starting at the near edge, and use side-to-side sweeping motions	play the stream off adjacent vertical surfaces until the area is blanketed	use concentrated amounts in small locations and put the fire out in sections	
15	779	B	With the sprinkler system and air system on, and all hatches shut, the survival craft will be protected from _____.	a nuclear environment	a fire and toxic environment	a hurricane	a drop greater than ten feet	
15	781	D	A class "C" fire is burning _____.	diesel oil	magnesium	dunnage	electrical insulation	

15	782	D	MODU survival craft is manufactured with fire retardant _____.	foam	marine plywood	steel	fiberglass	
15	783	A	Fire hose should always be stowed at the fire station in the hose rack _____.	after the hose has been completely drained	with the nozzle in the solid stream position	so the hose can be connected quickly if a fire occurs	so the nozzle is protected by the hose	
15	784	C	When transferring survivors from a survival craft to a rescue vessel, personnel onboard the craft should _____.	remove their lifejackets to make it easier to climb onboard the rescue vessel	climb on top of the survival craft while waiting for their turn to transfer to the rescue vessel	remain seated inside the survival craft and make the transfer one person at a time	enter the water and swim over to the rescue vessel	
15	786	C	Except in rare cases, it is impossible to extinguish a shipboard fire by _____.	removing the heat	removing the oxygen	removing the fuel	interrupting the chain reaction	
15	787	D	Treatment of frostbite is to _____.	rub with ice or snow	rub briskly to restore circulation	wrap tightly in warm cloths	warm exposed parts rapidly	
15	788	C	When using a dry chemical fire extinguisher to fight a fuel oil fire, you should _____.	attack the fire from the leeward side	direct the chemical discharge into the center of the burning fuel surface	sweep the chemical discharge back and forth across the burning fuel surface	invert the dry chemical extinguisher before starting to fight the fire	
15	789	D	Which of the listed sources of ignition may cause fuel vapors to ignite?	Static electricity	An open and running motor	Loose wiring	All of the above	
15	791	D	Which of the listed materials would be considered as a burning class "C" fire?	Fuel oil	Wood	Celluloid	Electrical insulation	
15	792	D	The ventilation system aboard your vessel has fire dampers restrained by fusible links. Which of the following statements concerning the fusible links is true?	A fusible link will automatically open after a fire is extinguished and reset the damper.	Fusible links must be replaced at every inspection for certification.	Fusible links are tested by applying a source of heat to them.	Fusible links must be replaced if a damper is closed.	
15	793	C	If a fire hose is left unattended and under pressure with the nozzle shut off, the fire hose will _____.	burst under pressure	lash about violently	remain motionless	become elongated by 125%	
15	794	C	On a cargo vessel, fire and boat drills must be held within 24 hours of leaving port if the percentage of the crew replaced is more than _____.	5%	10%	25%	40%	
15	796	D	The most likely location for a liquid cargo fire to occur on a tanker would be _____.	in the midships house	at the main deck manifold	at the vent header	in the pumproom	
15	797	A	A crew member has suffered frostbite to the toes of his right foot. Which of the following is NOT an acceptable first aid measure?	Rub the toes briskly.	Elevate the foot slightly.	Warm the frost bitten toes rapidly.	Give aspirin or other medication for pain if necessary.	
15	798	A	For the best extinguishing effect, the discharge from a dry chemical type fire extinguisher should be directed at the _____.	base of a fire	top and sides of a fire	middle of a fire	highest flames in a fire	
15	799	D	Kapok lifejackets require proper care and should NOT be _____.	stowed near open flame or where smoking is permitted	used as seats, pillows, or foot rests	left on open decks	all of the above	
15	800	A	A health hazard, listed on a Material Safety Data Sheet (MSDS), that can cause cancer in exposed individuals is called a _____.	carcinogen	cryogenic	irritant	mutagen	
15	801	C	A fire, occurring in the windings, of an overloaded electrical motor, is considered a _____.	class "A" fire	class "B" fire	class "C" fire	class "D" fire	
15	802	C	The flammable limits of benzene are 1.4% to 8% by volume in air. The instrument shown in the illustration is used to sample a tank that had contained benzene and a 90% reading is obtained. What percentage of benzene vapor would be indicated at the sampling point?	0.42%	0.98%	1.26%	7.20%	See illustration number(s): SF-0002

15	803	A	When the cotton cover of a fire hose becomes oily or greasy, it should be washed with a solution of mild soapy freshwater and _____.	a soft-bristled brush	a holystone	a canvas wiper	cornstarch	
15	804	C	Fusible link fire dampers are operated by _____.	a mechanical arm outside the vent duct	electrical controls on the bridge	the heat of a fire melting the link	a break-glass and pull-cable system	
15	806	C	A tank or compartment is "gas free" when there is an absence of dangerous concentrations of _____.	all flammable liquids	any combustible liquid	flammable or toxic gases	residues from cargo oil	
15	808	D	Which of the listed methods, is the most effective to fight a fire on the open deck of a vessel if using a dry chemical type fire extinguisher?	Approach the fire from the windward side.	Direct the extinguisher discharge at the base of the fire.	Move the discharge stream back and forth in a rapid sweeping motion.	All of the above.	
15	809	A	Fire dampers prevent the fire spreading through the process of _____.	convection	conduction	radiation	direct contact	
15	810	B	When compared to low-expansion foam, a high-expansion foam will _____.	be wetter	be lighter	be more heat resistant	not cling to vertical surfaces	
15	811	C	A burning AC motor would be considered what class of fire?	Class "A"	Class "B"	Class "C"	Class "D"	
15	812	D	The explosive range of benzene is 1.4% to 8% by volume in air. If you sample an empty tank that had contained benzene and obtained a reading of 50% L.E.L. on a combustible gas indicator, then the _____.	vapor/air mixture is too lean to burn	vapor concentration at the sample point is 0.7%	vapor/air mixture is not within the flammable range	all of the above	
15	813	B	A fire hose is subject to damage if the swivel on the female coupling is lubricated with _____.	Graphite	Grease	Soap	Talc	
15	814	D	Which of the following is least likely to cause the ignition of fuel vapors?	Static electricity	An open running electric motor	Loose wiring	Explosion proof lights	
15	816	D	If emergency welding repairs must be made to the upper area of a fuel tank, the tank and/or adjacent compartments may need to be _____.	gas freed	inerted	filled with water	all of the above as necessary	
15	817	C	The most effective warming treatment for a crew member suffering from hypothermia is _____.	running or jumping to create heat	lying in the sun	a warm water bath	mouth-to-mouth resuscitation	
15	818	B	When using a dry chemical type fire extinguisher in a windy location, you should direct the stream from _____.	downwind	upwind	across the wind	directly above	
15	819	D	A fire may be spread by which of the following means?	Conduction of heat to adjacent surfaces	Direct radiation	Convection	All of the above	
15	820	C	When compared to a high-expansion foam, a low-expansion foam will _____.	be dryer	be lighter	be more heat resistant	cling to vertical surfaces	
15	821	C	A fire in an electrical generator is considered to be _____.	Class "A"	Class "B"	Class "C"	Class "D"	
15	822	B	The flammable limits of methane by volume is 5% to 15%. If the combustible gas indicator reading is 50% when sampling a compartment containing methane, the flammable vapor concentration at the sample point is _____.	0.5% by volume	2.5% by volume	7.5% by volume	50.0% by volume	
15	823	A	If the threads and gasket of a fire hose coupling are in good condition, the minimum mechanical advantage necessary for making a watertight connection to another hose coupling, can be developed with _____.	your hands	a hose wrench	a monkey wrench	a coupling wrench	
15	824	D	A fire and boat drill on a tank vessel shall, by regulation, include _____.	starting the fire pumps	checking fireman's outfits and other personel rescue equipment	checking relevent communications equipment	all of the above	

15	826	D	The designation "Not safe for men - Not safe for fire" means _____.	the gas or oxygen concentrations within a compartment is not within permissible limits	dangerous gases are present	the compartment was not tested due to the presence of ballast slops or bunkers	all of the above	
15	827	B	A crew member suffering from generalized hypothermia should be given _____.	a small dose of alcohol	treatment for shock	a large meal	a brisk rub down	
15	828	C	Which of the following statements is NOT true concerning life-jackets?	They come in two sizes, child and adult.	They are required to be of a highly visible color.	The life jacket will always support an unconscious wearer in an upright position.	They must be able to support the wearer in an upright position.	
15	829	A	Besides heat, fuel, and oxygen, which of the following is necessary for a fire to exist?	Chain reaction	Thermal action	Chemical occlusion	Pyrotechnical reaction	
15	830	D	When compared to a high-expansion foam, a low-expansion foam will _____.	be dryer	be lighter	be less heat resistant	not cling to vertical surfaces	
15	831	C	Which of the listed classes of fire is considered as one involving electrical equipment?	Class "A"	Class "B"	Class "C"	Class "D"	
15	832	B	The flammable limits of kerosene are 0.7% to 6.0% by volume in air. The combustible gas indicator reading is 50% of the lower explosive level. The flammable vapor concentration at the sample point is _____.	too rich to burn	0.35%	2.65%	in the flammable range	
15	833	D	Which of the conditions listed make it difficult to indefinitely maintain fire hoses?	Gasoline and oils act to dissolve the rubber or cement which holds the inner jacket and lining together.	Heat causes the rubber lining to harden and crack.	Moisture will cause mildew to form on the jacket which destroys the cotton fiber.	All of the above.	
15	834	D	In order to retrieve an inflatable liferaft and place it on deck, you should heave on the _____.	lifelines	righting strap	sea anchor	towing bridle	
15	836	C	The midships house of your ship is constructed with an interior stairtower from the main deck to the bridge. Under which of the circumstances listed may the doors from each deck to the stairtower be kept open when underway?	They are to be kept closed at all times.	They may be kept open if the ventilation or air conditioning system is shut down.	They may be kept open if they can be automatically closed from the bridge.	They can be kept open if the station bill has personnel designated to close them in case of fire.	
15	837	D	The symptoms of heat exhaustion are _____.	slow and strong pulse	flushed and dry skin	slow and deep breathing	pale and clammy skin	
15	838	B	Which of the following statements is TRUE concerning lifejackets?	Buoyant vests may be substituted for lifejackets.	Lifejackets are designed to turn an unconscious person's face clear of the water.	Lifejackets must always be worn with the same side facing outwards to float properly.	Lightly stained or faded lifejackets will fail in the water and should not be used.	
15	839	A	Fires are grouped into which of the listed categories?	Class A, B, C, and D	Type 1, 2, 3, and 4	Combustible solids, liquids, and gases	Flammable solids, liquids, and gases	
15	840	A	When compared to low-expansion foam, a high-expansion foam will _____.	be drier	be heavier	be more heat resistant	not cling to vertical surfaces	
15	841	C	Which of the listed classes of fire would apply to a main switchboard fire?	Class "A"	Class "B"	Class "C"	Class "D"	
15	842	A	The vapor explosive range of gasoline by volume is 1.0% to 6.0% in air. If a gasoline tank is sampled with an explosimeter, and the reading obtained is 30% L.E.L., the vapor concentration at the sample point is _____.	0.3% by volume	0.6% by volume	1.3% by volume	6.3% by volume	
15	843	B	Which type of wrench listed is used to disconnect fire hose couplings?	Locking wrench	Spanner wrench	Crescent wrench	Pipe wrench	

15	844	A	Which of the following events shall be conducted during a fire and boat drill?	All watertight doors which are in use while the vessel is underway shall be operated.	All lifeboat equipment shall be examined.	Fire pumps shall be started and all exterior outlets opened.	All of the above.	
15	846	D	If, in a compartment or space, the gas or oxygen content is not within permissible concentration, and dangerous gases are either present, or may be produced by residues, what would be the safety designation listed on a marine chemist's certificate?	Safe for Men - Safe for Fire	Safe for Men - Not Safe for Fire	Not Safe for Men - Safe for Fire	Not Safe for Men - Not Safe for Fire	
15	847	B	Heat exhaustion is caused by excessive _____.	loss of body temperature	loss of water and salt from the body	gain in body temperature	intake of water when working or exercising	
15	848	C	Lifejackets should be stowed in _____.	the forepeaks	the pumproom	readily accessible spaces	locked watertight containers	
15	849	B	The class of fire on which a blanketing effect is essential to extinguish the fire is _____.	class A	class B	class C	class D	
15	850	B	Extra chemicals maintained aboard the vessel for producing chemical foam, should be stored _____.	in a freezer	in a cool dry place	at a temperature not less than 80°F	in open bins	
15	851	C	If the liferaft you are in should capsize, all personnel should leave the raft and _____.	climb onto the bottom	swim away from the raft	right the raft using the righting straps	inflate the righting bag	
15	852	C	When using the combustible gas indicator to test a cargo tank, and the hydrocarbon content of the atmosphere exceeds the upper explosive limit (UEL), _____.	the needle will move to zero and stay there	the needle will move to the maximum reading and stay there	the needle will move to the maximum reading and return to zero immediately	an audible beeping will be heard	
15	853	A	Hose spanner wrenches should be used to connect _____.	fire hoses to fire hydrants	hose spreaders for attaching new fittings	two female hose couplings	two male hose couplings	
15	854	B	You have abandoned ship and are in charge of a liferaft or lifeboat. How much water per day should you permit each person after the first 24 hours?	1 can	1 pint	1 quart	1 gallon	
15	855	A	Coast Guard regulations require a shipboard oil pollution emergency plan to be reviewed _____.	annually only	biennially only	quad-annually only	only one every five years	
15	856	D	If you have to jump in the water when abandoning ship, your legs should be _____.	spread apart as far as possible	held as tightly against your chest as possible	in a kneeling position	extended straight down and crossed at the ankles	
15	857	C	If a crew member faints, you should _____.	lay him down with his head slightly raised	administer a liquid stimulant	lay him down with his head lower than his feet	attempt to stand him upright to restore consciousness	
15	858	B	Lifesaving equipment shall be stowed so that it will be _____.	locked up	readily accessible for use	inaccessible to passengers	on the topmost deck of the vessel at all times	
15	859	B	An oil fire would be classified as a _____.	class A	class B	class C	class D	
15	860	C	Which of the following statements defines the purpose of the lifeboat gravity davit limit switch?	To cut off power when the davits hit the track safety stops.	To stop the davits from going too fast.	To cut off power when the davits are about 12 inches from the track safety stops.	None of the above.	
15	861	C	An inflatable life raft has inflated on top of you in an upside down position. What should you do next?	Wait for others to lift the raft off of you.	Dive down to prevent your lifejacket from fouling as you come out.	Pull yourself out from under the raft in a face up position to keep your lifejacket clear of the raft.	You should remove your lifejacket before attempting to right an inflatable raft.	

15	862	D	A vapor sample is drawn into the combustible gas indicator shown in the illustration. The needle deflects to the explosive range of the scale and then returns to rest at 20%. What does this indicate?	The indicator is improperly calibrated.	The concentration of combustible vapor in the sample is twenty percent.	The concentration of combustible vapor in the sample is twenty percent of its lower explosive limit.	The concentration of combustible vapor in the sample is above the upper explosive limit.	See illustration number(s): SF-0002
15	863	C	Which of the tools listed is designed for connecting and disconnecting fire hose couplings?	Vise grips	Channel locks	Spanner wrench	Pipe wrench	
15	864	B	When should food or water be provided to survivors after boarding a lifeboat or liferaft?	After 12 hours	After 24 hours	After 48 hours	Some food and water should be consumed immediately and then not until 48 hours later	
15	865	D	A reproductive health hazard, listed on a Material Safety Data Sheet (MSDS), that can cause genetic changes in sperm or egg cells is called a _____.	cyrogenic	carcinogen	teratogen	mutagen	
15	866	B	A compartment is tested and found to contain 20.8% oxygen by volume, permissible concentrations of toxic materials, and concentrations of flammable gas just below the lower flammable limit. If the residues are not capable of producing toxic materials or flammable concentrations, what would be the designation listed on the marine chemist's certificate?	Safe for men - Safe for Fire	Safe for men - Not Safe for Fire	Not safe for men - Safe for Fire	Not safe for men - Not Safe for Fire	
15	867	C	Which of the following should NOT be done for a person who has fainted?	Get the person in the open air.	Loosen the clothing.	Lay the person with the head higher than the feet.	Splash cold water in the face.	
15	868	B	Which of the following statements is TRUE concerning lifejackets?	Buoyant vests may be substituted for lifejackets.	Kapok lifejackets must have plastic-covered pad inserts.	Lifejackets must always be worn with the same side facing outwards.	Lifejackets are not designed to turn a person's face clear of the water when unconscious.	
15	869	B	A galley grease fire would be classified as _____.	Class A	Class B	Class C	Class D	
15	870	A	With no alternative but to jump from a vessel, the correct posture should include _____.	holding down the lifejacket against the chest with one arm crossing the other, covering the mouth and nose with a hand, and feet together	knees bent and held close to the body with both arms around the legs	body straight and arms tightly at the sides for feet first entry into the water	both hands holding the lifejacket below the chin with knees bent and legs crossed	
15	872	D	The flammable limits of benzene are 1.4% to 8.0% by volume in air. If a reading of 50% of the lower explosive limit is obtained, using the meter shown in the illustration, the vapor concentration at the sample point is _____.	3.3% by volume	in the flammable range	too rich to burn	too lean to burn	See illustration number(s): SF-0002
15	873	B	After the lifeboat has reached the top of the davit heads, the davit arms begin moving up the tracks until the movement is stopped by the _____.	hoist man	limit switch	brake handle	preventer bar	
15	874	A	Which statement concerning the collection of fresh water is FALSE?	Fresh water may be obtained from fish.	Lifeboat covers or canopies should be washed with rain before drinking water is collected.	Fresh water may be collected from condensation inside the liferaft.	Freshwater cannot be produced from standing seawater.	
15	875	B	The explosive range of petroleum vapors when mixed with air is _____.	0% to 1% by volume	1% to 6% by volume	6% to 12% by volume	12% to 20% by volume	

15	876	D	Which of the following conditions must be met before a marine chemist will issue a certificate for a compartment to be "safe for workers, safe for hot work"?	The residues in the compartment must not be capable of producing any toxic gas under existing atmospheric conditions.	The concentration of combustible gases in the compartment's atmosphere must be less than 10 percent of the lower flammable limit.	The toxic gases in the compartment's atmosphere must be within permissible concentrations.	All of the above.	
15	877	D	The proper stimulant for an unconscious person is a/an _____.	vigorous shaking	sequence of back blows	precordial thump	ammonia inhalant	
15	878	C	Which of the following procedures is NOT recommended when it is necessary to swim through an oil fire?	Wear as much clothing as possible.	Enter the water feet first and legs together.	Swim in the same direction as the wind is blowing.	Cover your eyes with one hand when entering the water.	
15	879	D	If ignited, which of the listed materials would be a class "B" fire?	Magnesium	Paper	Wood	Diesel Oil	
15	880	A	To comply with the Pollution Prevention Regulations (33 CFR), regarding fuel oil discharge containment, a vessel of 200 gross tons built in 1972 must have at least a portable container with at least a _____.	5 U.S. gallon capacity	3 barrel capacity	2 barrel capacity which may be bolted in place below the loading manifold valves	1 barrel capacity with no provisions for drainage	
15	881	C	Foam is effective in combating which of the listed classes of fire?	Class A	Class B	Classes A and B	Classes B and C	
15	882	B	The flammable limits of Benzene are 1.4% to 8% by volume in air. If a combustible gas indicator is used to sample a tank that contains a Benzene vapor/air mixture of 0.7% Benzene vapor by volume in air, which of the listed indications will be observed on the meter?	The meter will deflect to the 70% explosive position.	The meter will deflect to the 50% explosive position.	The meter will deflect full scale and return to zero.	The meter will be unable to detect a concentration of 0.7% Benzene vapor in air.	
15	883	B	If an inflatable life raft inflates upside down, you can right it by _____.	pushing up on one side	standing on the CO2 bottle, holding the bottom straps, and throwing your weight backwards	getting at least three or four men to push down on the side containing the CO2 cylinder	doing nothing; it will right itself after the canopy supports inflate	
15	884	A	When collecting condensation for drinking water, _____.	a sponge used to mop up and store condensation must be kept salt free	only condensation on the bottom of the canopy should be collected	it should be strained through a finely woven cloth	chlorine tablets should be used to make it drinkable	
15	885	C	The function of the lifeboat davit limit switch is to _____.	control the descent rate of a lifeboat	control the ascent rate of a lifeboat	cut off power to the winch when the lifeboat nears the final stowed position	cut off power to the winch when the lifeboat reaches the davit bumpers	
15	887	A	To determine whether or not an adult victim has a pulse, the rescuer should check for the pulse at the _____.	carotid artery in the neck	femoral artery in the groin	brachial artery in the arm	radial artery in the wrist	
15	888	D	When jumping into water upon which there is an oil fire, you should _____.	break the water surface with your hands when diving head first	use your hands to hold your knees to your chest	cover your eyes with one hand while pinching your nose shut and covering your mouth with the other	enter the water at the bow or stern, on the windward side of the vessel	
15	889	B	Which of the listed classes of fire would most likely occur in the engine room of a vessel?	Classes A and B	Classes B and C	Classes C and D	Classes A and D	
15	890	C	Fuel oil and bulk lubricating oil discharge containment on a 200 gross ton ship (constructed before July 1, 1974) may consist of a/an _____.	fixed container with a capacity of 5 U.S. gallons (19 l)	enclosed deck area with a capacity of 5 U.S. gallons (19 l)	fixed container with a capacity of one-half barrel (.08 m3)	overflow manifold that empties into the day tank	



15	891	B	A reproductive health hazard, listed on a Material Safety Data Sheet (MSDS), that can damage the fetus during development is called a _____.	pyrophoric	teratogen	mutagen	cryogenic	
15	892	D	When the concentration of gas vapor in the sample is above the 100% explosive reading on the meter shown in the illustration, then _____.	the atmosphere at the sample point consists of 100% flammable gas	the meter is defective	no further increase in vapor concentration at the sample point is possible	the flammable vapor concentration at the sample point is above the lower explosive limit	See illustration number(s): SF-0002
15	893	D	If an inflatable liferaft is overturned, it may be righted by _____.	filling the stabilizers on one side with water	releasing the CO2 cylinder	pushing up from under one end	standing on the inflating cylinder and pulling on the straps on the underside of the raft	
15	894	B	Provided every effort is used to produce, as well as preserve body moisture content by avoiding perspiration, how long is it normally possible to survive without stored quantities of water?	Up to 3 days	8 to 14 days	15 to 20 days	25 to 30 days	
15	895	D	You will find a limit switch on a _____.	liferaft cradle	radial davit	sheath-screw davit	gravity davit	
15	896	A	Which one of the following statements is true concerning the gas free status of a compartment?	The gas free status applies to the conditions of the compartment at the time of the inspection.	The gas free status applies for the duration of the work inside the compartment.	The gas free status applies for the 24 hour period following the inspection.	The gas free status applies as long as the air temperature inside the compartment remains at or below 25 degrees Celsius.	
15	897	A	A Certificate of Financial Responsibility attests that the vessel _____.	has financial backing to meet any liability resulting from the discharge of oil	has the minimum required amount of P&I	will assume the responsibility for any damage or loss to the shipper	has financial reserves to meet reasonable expected crew costs of an intended voyage	
15	898	C	One of the methods NOT usually allowed in cleaning up oil spills in the United States is _____.	skimmers	straw	dispersants	sawdust	
15	899	B	If you must enter the water on which there is an oil fire, you should _____.	protect your lifejacket by holding it above your head	enter the water on the windward side of the vessel	keep both hands in front of your face to break the water surface when diving head first	wear very light clothing	
15	900	A	According to the Pollution Prevention Regulations (33 CFR), which of the following statements is correct regarding the fuel oil containment under the oil filling connection section?	The containment may be fixed or portable depending upon the age of the vessel.	The containment drains must have quick-closing valves to be closed in the event of leakage or failure of any part of the transfer connection.	All containment drains must lead to a common, fixed drain tank.	Containment drains are prohibited from leading to a common tank.	
15	901	D	A class "D" fire would be considered as burning _____.	wood	oil	electrical equipment	magnesium	
15	902	C	The flammable limits of kerosene is 0.7% to 6.0% by volume in air. If a tank having contained kerosene is tested with the combustible gas indicator, shown in the illustration, and a reading of 50% is obtained, this means _____.	insufficient oxygen exists in the space to support life	the atmosphere contains 50% kerosene vapor by volume in air	the sample is below the lower explosive limit	the sample contains approximately 3.0% kerosene vapor by volume	See illustration number(s): SF-0002
15	903	D	For the safety of personnel working with fire hoses, fire pumps are fitted with a/an _____.	butterfly valve on the discharge side	air priming valve on the impeller housing	automatic suction valve shut off	pressure gage and relief valve on the discharge side	

15	904	A	Handholds or straps on the underside of an inflatable liferaft are provided _____.	to right the raft if it capsizes	to carry the raft around on deck	for crewmen to hang on to	to hang the raft for drying	
15	905	D	Seawater may be used for drinking water _____.	at a maximum rate of two ounces per day	after mixing with an equal quantity of fresh water	if gather during or immediately after a hard rain	under no circumstance	
15	906	B	Which of the following gases represents the greatest threat to personnel safety in an engine room where the exhaust is leaking from a diesel engine?	Carbon dioxide	Carbon monoxide	Carbon trioxide	Hydrogen sulfide	
15	907	C	An unconscious person should NOT be _____.	placed in a position with the head lower than the body	given an inhalation stimulant	given something to drink	treated for injuries	
15	908	C	Why is it essential to introduce CO2 from a fixed fire extinguishing system, into a large engine room, as quickly as possible?	The fire may warp the CO2 piping.	To keep the fire from spreading through the bulkheads.	Updraft from the fire tends to carry the CO2 away.	Carbon dioxide takes a long time to disperse to all portions of a space.	
15	909	B	Inflatable liferafts are provided with _____.	a pistol	a towing connection	a portable radio	canned milk	
15	910	B	A tank vessel with an oil cargo capacity of 5000 barrels is required by regulations to have a fixed container, or enclosed deck area under or around each oil loading manifold and each oil transfer connection point. The capacity of these containment areas is based upon _____.	cargo oil service pressure	inside transfer hose diameter or loading arm nominal pipe size diameter	number of cargo oil tank vents, overflows and fill pipe connections	all of the above	
15	911	D	Fires involving combustible metals are classified as _____.	class "A" fires	class "B" fires	class "C" fires	class "D" fires	
15	912	C	Combustible gas indicators measure the percentage of the concentration of the lower explosive limit of gases. If the hydrocarbon content of the sample exceeds the upper explosive limit _____.	the needle will rise slowly to and remain at the maximum reading	the needle will move rapidly to and remain at the maximum reading	the needle will move to the maximum reading and return to zero immediately	it will not be detected	
15	913	B	Which of the following components provides a direct source of seawater for the fire main system?	Rosebox	Sea chest or spool piece	Sluice valve	Fire pump stuffing box	
15	914	D	When a helicopter is lifting personnel from an enclosed lifeboat, the other individuals in the boat should _____.	enter the water in case the person being lifted slips from the sling	stand on the outside of the boat to assist the person being lifted	remove their lifejackets to prepare for their transfer to the helicopter	remain seated inside to provide body weight for stability	
15	915	B	Which of the hazards listed is of a primary concern, other than fire damage, associated with a class C fire?	Susceptible to reflash	Electrocution or shock	Explosion	Deep seated fire	
15	916	C	One of the common hazards onboard a vessel is represented by the accumulation of harmful gases in tanks, holds, etc. Which of the following gases is the most dangerous to personnel safety in confined atmospheres, as it is absorbed by the blood 300 times more quickly than oxygen?	Hydrogen	Carbon dioxide	Carbon monoxide	Ammonia	
15	917	A	Which of the following should not be used as a treatment for a person who has received a head injury and is groggy or unconscious?	Give a stimulant	Elevate his head	Stop severe bleeding	Treat for shock	
15	918	C	A small fire is reported in the forward cargo hold on a vessel equipped with a combination smoke detection/carbon dioxide fixed fire extinguishing system. After ensuring the space is unoccupied and properly sealed off, you should NEXT _____.	operate the control heads mounted on the main pilot cylinders	close all three-way valve levers that are in the detecting position with the exception of the valve(s) to the involved space	open the three-way valve whose number (on the handle) corresponds with the line index chart number for the space on fire	lock the smoke detector indicator on the monitoring line, which automatically activates the CO2 extinguishing system	

15	919	B	The jackknife stored on an inflatable liferaft will always be located _____.	in one of the equipment bags	in a special pocket near the forward entrance	on a cord hanging from the canopy	in a pocket on the first aid kit	
15	920	D	A ship of 6000 gross tons constructed after June 30, 1974, must have a fixed container, or enclosed deck area under or around each fuel oil vent, overflow, and fill pipe. This fixed container, or enclosed deck area must have a capacity of at least _____.	5 gallons	21 gallons	1/2 barrel	1 barrel	
15	921	C	When a rescue vessel approaches a lifeboat in heavy seas, the person in charge of the lifeboat should _____.	transfer all personnel immediately	tie up to the rescue vessel	wait for calmer weather before transferring personnel	transfer only those personnel who are not seasick	
15	922	B	The reading of a combustible gas indicator indicates the percentage of the _____.	concentration of flammable gas in a compartment	lower explosive limit of a flammable gas concentration	upper explosive limit of a flammable gas concentration	concentration by weight of nonflammable gas in a compartment	
15	923	A	The fire main system should be flushed with fresh water whenever possible to _____.	help destroy marine growth	identify loose pipe joints	prevent corrosion of valve stems	eliminate cracking of fire hose linings	
15	924	A	Foam is a very effective smothering agent, in addition _____.	it provides cooling as a secondary effect	works well on extinguishing electrical fires	can be used to combat combustible metal fires	all of the above	
15	925	D	A fire involving aluminum powder would be a class _____.	"A" fire	"B" fire	"C" fire	"D" fire	
15	926	D	If a cargo tank has not been certified as gas free, _____.	entry without a breathing apparatus may be made at the top of the tank since petroleum vapors are heavier than air	a man may work safely without breathing apparatus in cold weather as vapors are less volatile	breathing apparatus would not be necessary in an emergency as you would only be in the tank a short time	fresh air breathing apparatus should always be used	
15	927	A	A crewman has suffered a blow to the head and various symptoms indicate a concussion. Proper treatment should include _____.	turning the victims's head to the side to keep his airway open	positioning the victim so the head is lower than the body	giving the victim water but no food	placing a pillow only under the victim's head	
15	928	B	One of the disadvantages of using carbon dioxide to extinguish a fire in an enclosed space is _____.	the "snow" which is sometimes discharged along with the gas is toxic	prolonged exposure to high concentrations of CO2 gas causes suffocation	rapid dissipation of the CO2 vapor	the CO2 gas is lighter than air and a large amount is required to extinguish a fire near the deck	
15	929	D	Inflatable liferafts are provided with _____.	a portable radio	an oil lantern	canned milk	a towing bridle	
15	930	A	According the Pollution Prevention Regulations, a tank vessel with a total capacity of over 250,000 barrels of cargo oil, having two loading arms with a nominal pipe size diameter of 10 inches, each being 75 feet in length, must have an enclosed deck area with a minimum capacity of _____.	126 gallons	168 gallons	252 gallons	491 gallons	
15	931	C	You are testing the external inflation bladder on an immersion suit and find it has a very slow leak. Which of the actions listed should be taken?	Replace the suit.	Replace the inflation bladder.	Contact the manufacturer for repair instruction.	Some leakage should be expected and a topping off tube is provided; no other action is necessary.	

15	932	D	Which of the following conditions is an important consideration to remember when using a combustible gas indicator?	They detect vapor at the sample point only.	They do not work properly in oxygen deficient atmospheres.	Any movement of the needle indicates an unsafe condition specifically related to the toxicity of petroleum vapors present.	All of the above.	
15	933	D	If for any reason it is necessary to abandon ship while far at sea, it is important for the crew members to _____.	separate from each other as this will increase the chances of being rescued	get away from the area because sharks will be attracted to the vessel	immediately head for the nearest land	remain together in the area because rescuers will start searching at the vessel's last known position	
15	934	D	One of the limitations of foam as a fire extinguishing agent is that foam _____.	cannot be made with salt water	is heavier than oil and sinks below it surface	is corrosive and a hazard to fire fighters	conducts electricity	
15	935	D	A magnesium fire would be classified as a _____.	class A	class B	class C	class D	
15	936	D	A good approach to personnel safety is to assume that all tanks and pumprooms are potentially dangerous. You should immediately leave an area whenever _____.	you have irritation of the eyes, nose, or throat	you smell an unusual odor	you experience an abnormal bodily sensation	any of the above conditions occur	
15	937	A	In reviving a person who has been overcome by gas fumes, which of the following treatments would you AVOID using?	Giving stimulants	Prompt removal of the patient from the suffocating atmosphere	Determine the need for, and administer CPR if appropriate	Keeping him warm and comfortable	
15	938	C	What danger to personnel exists when a carbon dioxide fire extinguisher is discharged in a small enclosed space?	Second degree burns	Electric shock	Suffocation	Burst eardrums	
15	939	D	Inflatable liferafts are provided with a _____.	jackknife	towing connection	lifeline	all of the above	
15	940	D	For a ship of 10,000 gross tons, constructed after 30 June 1974, a fixed container, or enclosed deck area, must exist under or around each fuel oil tank vent. The container must have a capacity of at least _____.	5 gallons (18.9 l)	10 gallons (37.8 l)	21 gallons (79.5 l)	42 gallons (158.9 l)	
15	941	C	How is the external flotation bladder of an immersion suit inflated?	It is inflated by a small CO2 bottle that is automatically tripped when the front zipper is at the top of zipper track.	It is inflated by a small CO2 bottle that is manually tripped.	It is inflated by blowing through an inflation tube.	It inflates by sea water bleeding into the flotation bladder and reacting with a chemical.	
15	942	D	When testing the atmosphere of a compartment with a combustible gas indicator, the operator must remember that _____.	most petroleum vapors are lighter than air and accumulate around deck longitudinals	the indicator guarantees a safe atmosphere for a maximum of two hours	the meter scale indicates only the upper explosive range	the indicator tests only the atmosphere at the end of the suction tube	
15	943	B	Lower level fire main stations in the engine room should undergo regular routine maintenance, including _____.	operating the self-cleaning strainers once a day	flushing out the hydrants with full fire main pressure	repacking valve stems at three month intervals	a weekly replacement of fire hose fittings	
15	944	A	To keep injured survivors warm in the water, after abandoning ship, they should _____.	be placed in the middle of a small circle formed by the other survivors in the water	float on their backs with their arms extended for maximum exposure to the air	remove their lifejackets and hold on to the uninjured survivors	sip water at fifteen minute intervals	

15	945	D	Shipboard oil pollution emergency plans must be reviewed _____.	annually by the owner and a letter submitted six months prior to expiration	only once every five years and a letter submitted six months prior to expiration	and the entire plan resubmitted for approval once every five years, six months prior to expiration	annually by the owner and submit a letter to the Coast Guard within one month of the anniversary date of the plan approval	
15	946	C	Limit switches on gravity davits should be tested by _____.	the engineers, from a panel in the engine room	shutting off the current to the winch	pushing the switch lever arm while the winch is running	all of the above	
15	947	B	If a person gets battery acid in their eye while filling a battery, they should FIRST wash the eye with _____.	boric acid solution	water	baking soda solution	ammonia	
15	948	A	When any fire has been extinguished with carbon dioxide, there is always the danger of the _____.	fire being reignited by residual heat	machinery suffering thermal shock damage	dry ice crystals clogging the machinery	atmosphere containing a dangerous charge of static electricity	
15	949	D	A safety feature provided on all inflatable liferafts is _____.	overhead safety straps	built in seats	internal releasing hooks	the use of water stabilizing pockets	
15	950	B	A 1500 gross ton freight vessel, with a keel laid in 1969, must have a fuel oil discharge containment for the fuel tank vents. This containment must consist of _____.	self-closing scupper drains	portable containers of at least 5 U.S. gallon capacity	20 inch high coamings	a container with a capacity of 3 barrels if it serves one or more vents; each with an inside diameter of 3 inches or more	
15	951	A	A burning mattress is considered as which of the following classes of fire?	Class "A"	Class "B"	Class "C"	Class "D"	
15	952	D	The external flotation bladder of an immersion suit should be inflated _____.	only after two hours in the water	only after four hours in the water	before entry into the water	upon entry into the water	
15	953	C	There is always a lower water pressure at the fire hose outlet than is found at the discharge of the pump. Which of the following reasons is the common cause of this loss in pressure?	Leaky pilot valve	Leaky pump suction valve	Friction in the piping and valves	Wear in the hydrant	
15	954	D	The use of sinking and dispersing agents for the removal of surface oil is _____.	the most common method used in the United States	too expensive for common use	generally safe to sea life	generally harmful to sea life	
15	955	B	When operating gravity davits, _____.	the gripes should be released after the boat is moving	the davits should always be hand cranked the last 12 inches into the final stowed position	the boats are generally lowered by surging the falls around cruciform bits	the tricing pendant should be tripped prior to releasing the gripes	
15	956	D	Which of the following can result in an oxygen deficiency in a closed space?	Rusting	Cargo residue	Fuel oil residue	All of the above	
15	957	D	If a person gets something in his eye and you observe that it is not embedded, you can _____.	get him to rub his eye until the object is gone	remove it with a match or toothpick	remove it with a piece of dry sterilized cotton rag	remove it with a moist cotton-tipped applicator	
15	959	C	An inflatable liferaft is floating in its container, attached to the ship by its painter, as the ship is sinking rapidly. Which of the actions listed should be taken with respect to the liferaft container?	Cut the painter line so it will not pull the life raft container down.	Swim away from the container so you will not be in danger as it goes down.	Take no action as the pull on the painter will cause the liferaft to inflate and open the container.	Manually open the container and inflate the liferaft with the hand pump.	
15	960	A	U.S. Coast Guard Regulations require that no person may transfer oil or fuel to a vessel of 3000 gross tons constructed after June 30, 1974, unless each fuel tank vent overflow and fill pipe is equipped with a/an _____.	fixed container or enclosed deck area of one barrel capacity	portable container of at least 5 U.S. gallon capacity	automatic back pressure shutoff nozzle	quick-closing anti-spill valve	

15	961	B	Which of the following statements is true concerning an immersion suit and its use?	Only a light layer of clothing may be worn underneath.	They provide sufficient flotation to do away with the necessity of wearing a lifejacket.	They should be tight fitting.	A puncture in the suit will not appreciably reduce its value.	
15	962	D	Combustible gas indicators are used to detect flammable gases or vapors in the atmosphere. As a safety feature, they are equipped with _____.	an audible signaling devices	an inflatable bag	a pressure relieving devices	flame arrestors	
15	963	B	Which of the following conditions would be true if a serious leak developed in the main line of a horizontal, looped, fire main system?	It would not be possible to provide water beyond the point where the break occurred.	The ruptured section could be isolated allowing water to be delivered to all other parts of the system.	The capability of the system would be greatly reduced due to the drop in line pressure but still remain operational through the use of the alternate loop.	Full fire main pressure could be maintained but only on one side of the vessel through the use of either the fore or aft isolation valve.	
15	964	D	Records of garbage disposal are required to be maintained _____.	until each quadrennial Coast Guard inspection	until the end of each voyage	for a minimum of one year	for a minimum of two years	
15	965	B	When using the hand crank to retrieve and stow a lifeboat on gravity davits, which of the listed precaution should always be observed?	Make certain the hand brake is disengaged.	Put the emergency disconnect switch in the "off" position.	Make certain the crank is in the locked position.	Disconnect the limit switch.	
15	966	A	A tank which has been sealed for a long period of time can be dangerous because _____.	steel surfaces consume oxygen by rusting	sealed tanks usually form a vacuum	moisture condenses in the tank, displacing the oxygen	most tank coatings give off poisonous vapors in the presence of moisture	
15	967	A	For a victim who is coughing and gagging, as a result of a partial obstruction of the airway by a foreign body, a potential rescuer should _____.	encourage the victim to continue coughing. If the victim is unable to expel the object, arrange for prompt transport to an appropriate medical facility	wait for the victim to become unconscious then give four back blows followed by four abdominal thrusts	immediately give four abdominal thrusts	bend the victim over and give back blows	
15	968	B	If you continue to wear extra clothing when entering the water after abandoning your vessel, it will _____.	weigh you down	preserve body heat	reduce your body heat	make it more difficult to breathe	
15	969	B	The operating cord on an inflatable liferaft also serves as a _____.	lifeline	painter	drogue	marker	
15	970	A	According to the Coast Guard Pollution Prevention Regulations (33 CFR), which of the following statements is correct regarding the fuel oil containment around loading manifolds?	They may be fixed or portable, depending upon the age of the vessel.	The containment drains must have quick-closing valves to be closed in the event of leakage or failure of any part of the transfer connection.	All containment drains must lead to a common fixed drain tank.	Containment drains are prohibited from leading to a common tank.	
15	971	D	Fires occurring in combustible metals, such as sodium or magnesium, are classified as a _____.	class A	class B	class C	class D	
15	972	D	The reading on the combustible gas indicator, shown in the illustration, is obtained by burning the vapor sample within the instrument. How is the flame prevented from igniting the vapor within the space being tested?	The test burn occurs outside the tested space.	A series of baffles within the instrument prevents a flashback.	The length and diameter of the sampling tube are designed to prevent a flashback.	Flame arresters are placed at the inlet and outlet of the combustion chamber.	See illustration number(s): SF-0003

15	973	B	The device shown in the illustration is carried aboard tankships for _____.	use as a universal oil transfer connection	connecting shoreside and ship's fire main	blanking cargo hoses after transfer operations are completed	adapting ANSI and non-ANSI fuel hose flanges	See illustration number(s): SF-0028
15	974	C	Which of the following statements concerning immersion suits is correct?	Immersion suits should be worn during routine work on deck to provide maximum protection.	After purchasing, the suit should be removed from its storage bag and hung on a hanger where it will be readily accessible.	During the annual maintenance, the front zipper should be lubricated with paraffin or beeswax.	Small leaks or tears may be repaired using the repair kit packed with the suit.	
15	975	D	The purpose of the wire stretched between the lifeboat davit heads is to _____.	keep the movement of the davits at the same speed	keep the davits from slipping when they are in the stowed position	prevent vibration during lowering of the boat	support the manropes	
15	976	B	A tank has been sealed and unventilated for a long period of time. Which of the following conditions does this indicate?	The tank is safe to enter.	The tank is especially dangerous to enter.	Carbon monoxide is present.	Water vapor present when the tank was sealed has oxidized.	
15	977	A	You are in the mess room when a shipmate suddenly begins to choke, is unable to speak and starts to turn blue. Which of the following actions should you take?	Administer abdominal thrust in an effort to clear the airway.	Make the victim lie down with the feet elevated to get blood to the brain.	Immediately administer CPR.	Do nothing until the victim becomes unconscious.	
15	978	A	In which of the circumstances listed would a carbon dioxide fire extinguishing agent be most effective?	Within a closed space	On a magnesium fire	At a range of 15 feet	As a cooling agent	
15	979	C	The operating cord of the inflatable liferaft has a length of _____.	6 fathoms	50 feet	100 feet	300 feet	
15	981	A	If the items shown in the illustration are burning, this fire would be a Class _____.	"A"	"B"	"C"	"D"	See illustration number(s): SF-0001
15	982	D	Which of the following statement is true concerning the meter shown in the illustration?	Meter readings are obtained instantaneously upon release of the squeeze bulb.	If the meter moves to the extreme right side of the scale and stays there, the atmosphere is safe.	If there is any liquid in the tank being tested, the sampling tube should be submerged in it to obtain the most accurate reading.	As gas samples are drawn into the instrument they are burned within the case.	See illustration number(s): SF-0003
15	983	A	Which of the following terms correctly identifies the device shown in the illustration?	An international shore connection	An international ship connection	A U.S.C.G. approved fuel connection	A U.S.C.G. approved sewage disposal connection	See illustration number(s): SF-0028
15	984	B	Which of the following statements concerning immersion suits is correct?	Immersion suits should be worn while performing routine work on deck.	After purchasing, the suit should be stowed in the storage bag in which it was received.	During the annual maintenance, the front zipper should be lubricated using light machine oil or mineral oil.	Any tear or leak will render the suit unserviceable and it must be replaced.	
15	985	B	The most common type of containment device for spilled oil on the water is the use of _____.	straw	booms	skimmers	chemical dispersants	
15	986	A	Which of the following signals is used to report for boat stations or boat drill?	More than six short blasts followed by one long blast of the whistle.	A continuous blast of the whistle for a period of not less than 10 seconds.	One long blast followed by three short blasts of the whistle.	Three short blasts of the whistle.	
15	987	C	If someone suffers a heart attack and has ceased breathing, you should _____.	immediately give a stimulant, by force if necessary	make the victim comfortable in a bunk	immediately start CPR	administer oxygen	
15	988	B	Which of the following health hazards found on a Material Safety Data Sheet (MSDS) is a reproductive hazard?	Cyrogenic	Teratogen	Carcinogen	Esophagus	

15	989	A	After a liferaft is launched, the operating cord _____.	serves as a sea painter	detaches automatically	is used to rig the boarding ladder	is cut immediately as it is of no further use
15	990	A	When using a handheld smoke signal in a liferaft, you should _____.	activate the signal on the downwind side	activate the signal on the upwind side	activate the signal inside the boat	activate the signal at the stern
15	991	D	An example of class "A" fire is a/an _____.	electrical fire in the engine room	oil fire in the engine room bilges	oil fire involving a grade "A" petroleum product	mattress fire in a stateroom
15	992	A	Combustible gas indicators detect flammable gases, or vapors present in the atmosphere by an intricate system which includes _____.	burning the vapors	metering the vapors	measuring the vapor volume	weighing the vapor
15	993	D	How may a cargo tank atmosphere be tested for explosive gases?	Use the open flame test on a small sample that has been taken from the tank.	Send a gas sample ashore for laboratory analysis.	Enter the tank with a teledyne oxygen analyzer.	Use an explosimeter.
15	994	D	Which of the following statements concerning immersion suits is correct?	All models will automatically turn an unconscious person face up in the water.	The immersion suit seals in all body heat and provides protection against hypothermia for weeks.	The suit is flameproof and provides protection to the wearer while swimming through burning oil.	The suits provide for limited body movement such as walking, climbing a ladder, and picking up small objects like a pencil.
15	995	C	Pressure within a firemain system will vary from point to point due to _____.	leaky pilot valves	leaky pump suction valve	friction in the piping and valves	wear in the hydrant
15	996	B	While at your lifeboat station, you hear a signal consisting of one short blast of the whistle. This indicates _____.	abandon ship	commence lowering boats	stop lowering boats	secure from boat stations
15	997	D	A person suffering from a heart attack may show which of the following symptoms?	Shortness of breath	Pain in the left arm	Nausea	All the above
15	998	C	Before you initiate the engine room fixed CO2 system to extinguish a serious fire, you would _____.	start the emergency diesel	stop the main engine	evacuate all engine room personnel	turn off electrical power
15	999	A	After having thrown the liferaft and stowage container into the water, the liferaft is inflated by _____.	pulling on the painter line	forcing open the container which operates the CO2	hitting the hydrostatic release	using the hand pump provided
15	1000	B	The temperature at which a liquid, as listed on a Material Safety Data Sheet (MSDS), will change to a gas is called its _____.	flash point	boiling point	condensation point	reactive point
15	1001	B	The lowest temperature at which a liquid, listed on a Material Safety Data Sheet (MSDS), gives off enough vapor to ignite in the presence of an ignition source is called its _____.	boiling point	flash point	viscosity point	toxic point
15	1002	B	Combustible gas indicators are used to detect flammable gases, or vapors present in a tank. This is accomplished by an intricate instrument incorporating a/an _____.	inflatable bag	heated filament	sensitive liquid chemical	vapor detecting carbon compound
15	1003	C	While fighting a fire, in order to utilize two hoses from a single "wye" gate attached to a hydrant outlet, you need only turn the valve handle _____.	at the base of the "Y" in either direction	at the base of the "Y" counterclockwise 180°	on each leg of the "Y" 90°	on each leg of the "Y" 180°
15	1004	B	A vessel having a concentration of weight toward the top of the vessel is said to be _____.	stiff	tender	buoyant	neutral
15	1006	C	Which of the following statements concerning immersion suits is correct?	All models will automatically turn an unconscious person face up in the water.	The immersion suit seals in all body heat and provides protection against hypothermia for weeks.	The suit will still be serviceable after a brief (2-6 seconds) exposure to flame and burning.	The wearer of the suit is no way restricted in body movement and the suit may be donned well in advance of abandoning ship.



15	1007	A	Persons who have swallowed a non-petroleum based poison are given large quantities of warm, soapy water or warm salt water to _____.	induce vomiting	absorb the poison from the blood	neutralize the poison in the blood	increase the digestive process and eliminate the poison	
15	1008	B	Why is it necessary to warn engine room personnel before activating the fixed CO2 system?	To make them aware there is a fire.	To let them know they should leave the engine room.	To prevent possible injury from frostbite.	To make them aware that ventilation will automatically stop.	
15	1009	D	Hydrogen sulfide gives crude oil the sour odor of rotten eggs. A hazard to personnel regarding hydrogen sulfide is _____.	dizziness	asphyziation	death	All of the above	
15	1010	C	An inflatable liferaft can be launched by _____.	the float-free method only	kicking the hydrostatic release	throwing the entire container overboard, then pulling on the operating cord to inflate the raft	removing the securing straps	
15	1011	B	The signal given to commence lowering the lifeboats is _____.	3 short blasts of the ship's whistle	1 short blast of the ship's whistle	3 long blasts of the ship's whistle	1 long blast of the ship's whistle	
15	1012	C	Combustible gas indicators incorporate the use of a/an _____.	sensitive liquid chemical	vapor-detecting carbon compound	Wheatstone bridge	inflatable bag	
15	1013	C	In cleaning up an oil spill, the use of chemical agents would _____.	absorb the oil for easy removal	remove the oil from the water	disperse or dissolve the oil in the water	not affect the oil	
15	1014	D	If fuel is burned from only the starboard tanks, the ship will _____.	go down by the head	list to starboard	trim by the stern	list to port	
15	1015	A	Puncture leaks in the lower tubes, or bottom of an inflatable liferaft should first be stopped by using _____.	sealing clamps	repair tape	a tube patch	sail twine and vulcanizing kit	
15	1016	B	Which of the following statements concerning immersion suits is correct?	All models will automatically turn an unconscious person face-up in the water.	The immersion suit reduces the rate of body cooling and greatly increases the survival time in cold water.	The suit is flameproof and provides protection to a wearer swimming in burning oil.	The suit provides a full range of body movement and is suitable for routine wear on deck.	
15	1017	C	To reduce mild fever the MOST useful drug is _____.	bicarbonate of soda	paregoric	aspirin	aromatic spirits of ammonia	
15	1018	D	Which of the following statements is true concerning carbon dioxide when used as a fire extinguishing agent?	Carbon dioxide is corrosive when exposed to fire.	Carbon dioxide should be applied slowly to a large engine room fire.	Its total cooling effect is far greater than water.	Its smothering effect is excellent for class B fires.	
15	1019	C	Hydrogen sulfide is the constituent giving sour crude oil the characteristic odor of rotten eggs. One of the hazards associated with hydrogen sulfide is _____.	chemical burning of the skin	irritation of the intestinal tract	its high toxicity resulting in death	dependency addiction to the highly toxic fumes	
15	1020	D	A raft should be manually released from its cradle by _____.	cutting the straps that enclose the container	removing the rubber sealing strip from the container	loosening the turnbuckle on the securing strap	pushing the button on the hydrostatic release	
15	1021	A	A fire in a pile of canvas would be classified as a _____.	class A	class B	class C	class D	
15	1022	D	When taking samples of a tank atmosphere with an explosimeter, you should _____.	only sample around the deck longitudinals as gases are lighter than air	sample only near the ullage openings as all vapors accumulate there	avoid sampling in the vicinity of deep webs to prevent false readings	sample as much of the tank as possible, especially at the bottom	
15	1023	B	When whistle signals are used as commands for launching the lifeboats, one short blast means _____.	use the float-free method only	lower all boats	raise all boats	drill is over, secure all boats	

15	1024	A	Which of the following statements concerning immersion suits is correct?	Some models will not automatically turn an unconscious person face-up in the water.	The immersion suit seals in all body heat and provides protection against hypothermia for weeks.	The suit is flameproof and provides protection to the wearer while swimming through burning oil.	The wearer of the suit is not severely restricted in body movement and permits the wearer to perform any form of strenuous work.	
15	1026	D	The atmosphere of an empty fuel tank is tested and designated "gas free". Which of the following statements is correct concerning this tank?	The concentration of flammable gas in the compartment is less than 10% of the lower flammable limit.	The tank should be frequently retested.	The gas free status is good as long as the initial conditions remain unchanged.	All of the above.	
15	1027	C	Which of the following best defines First Aid?	Medical treatment of internal injuries	Setting of broken bones and transport of victim	Emergency treatment of the injury at the scene.	Dosage of medications and application of bandages	
15	1028	B	Which of the following terms is the minimum temperature at which a liquid, as listed on a Material Safety Data Sheet (MSDS), gives off sufficient vapor concentration to ignite in the presence of an ignition source?	Explosion point	Flash point	Fire point	Danger point	
15	1029	C	In cleaning up an oil spill, the use of straw or reclaimed paper fibers would be an example of which type of oil removal?	Chemical agent removal	Mechanical removal	Absorbent removal	None of the above	
15	1030	C	The most important thing to remember when launching an inflatable liferaft by hand is to _____.	open the CO2 inflation valve	open the raft container	ensure that the operating cord is secured to the vessel	inflate the raft on the vessel, then lower it over the side	
15	1031	A	A fire in a pile of dunnage would be classified as a _____.	class A	class B	class C	class D	
15	1032	C	To detect the presence of explosive gases in any space, tank, or compartment, you should use a _____.	flame scanner	halide torch	combustible gas indicator	detector filament	
15	1033	C	While at your lifeboat station, a signal consisting of two short blasts of the ship's whistle is sounded. This indicates _____.	abandon ship	commence lowering boats	stop lowering boats	secure from boat stations	
15	1034	D	Which of the following statements concerning immersion suits is FALSE?	They should be worn while working on deck if the possibility exists of being washed overboard.	The suit is received from the manufacturer in a bag intended to be used for storage of the suit onboard ship.	During the annual inspection and maintenance, the zipper should be lubricated with beeswax or paraffin.	A small leak of water into the suit will destroy the protective qualities against hypothermia.	
15	1036	C	What information can be obtained from a marine chemist's certificate on a tank barge?	The number of fire extinguishers required onboard.	The quality of the barge's cargo.	The tanks which are safe to enter when the certificate was issued.	The barge's stability information.	
15	1037	A	Symptoms of sugar diabetes include _____.	increased appetite and thirst	decreased appetite and thirst	gain in weight	elevated temperature	
15	1038	B	The fire extinguishing action of CO2 is derived mostly from _____.	a blanket of bubbles formed on the surface of the fire	smothering	cooling	isolating the heat from the fuel	
15	1039	C	Which type of fire extinguisher is most prone to the freezing when exposed to low temperatures?	Halon 1211	Carbon dioxide	Foam	Dry chemical	
15	1040	D	To launch a liferaft by hand, you should _____.	cut the casing bands, throw the liferaft over the side and it will then inflate	detach the operating cord, throw the raft over the side and it will then inflate	cut the casing bands, throw the raft over the side and pull the operating cord	throw the liferaft over the side and pull the operating cord	

15	1041	A	A fire involving trash and paper waste would be classified as a _____.	class A	class B	class C	class D	
15	1042	B	Hydrocarbon vapors are usually detected by the use of the _____.	flame safety lamp	combustible gas indicator	gasometer	oxygen indicator	
15	1043	B	While reading the station bill, you find "three (3) short blasts on the whistle and three (3) short rings on the general alarm bells," this signal is for _____.	abandon ship	dismissal from fire and emergency stations	fire and emergency	man overboard	
15	1044	A	What statement about immersion suits is FALSE?	The suit should be worn only when abandoning ship.	The suit is received from the manufacturer in an outer storage bag that should be used aboard ship for storing the suit.	The front zipper should be lubricated according to manufacturer's specifications.	Immersion suits provide protection against hypothermia even if there is a small leak or tear.	
15	1045	C	A category of health hazard, as listed on a Material Safety Data Sheet (MSDS) which includes teratogens and mutagens, is called a _____.	pyrophoric hazard	reactive hazard	reproductive hazard	contamination hazard	
15	1046	D	A liquid, as listed on a Material Safety Data Sheet (MSDS), having a flash point below 100,F (37.78,C) is called a/an _____.	viscous liquid	explosive liquid	combustible liquid	flammable liquid	
15	1047	B	If a diabetic suffers an insulin reaction and is conscious, he should be given _____.	soda crackers and water	orange juice or a candy bar	an ounce of whiskey	a glass of milk	
15	1048	B	A liquid, as listed on a Material Safety Data Sheet (MSDS) having a flash point at or above 100,F is called a/an _____.	explosive liquid	combustible liquid	flammable liquid	viscous liquid	
15	1049	C	If an emergency pump control is used as the emergency shutdown on a tank vessel, it must stop the flow of oil through _____.	the main deck manifold	the facility	the pump	a means that is not dependant on electrical power	
15	1050	D	An ullage reading is the distance from a given point at the _____.	sounding tube to either side of the tank	top of the tank down to the bottom of the tank	top of the liquid down to the tank bottom	top of the sounding tube down to the surface of the liquid	
15	1051	D	An inflatable liferaft is hand-launched by _____.	pulling a cord	cutting the wire restraining bands	removing the rubber packing strip	throwing the entire container overboard	
15	1052	D	An instrument used to detect explosive gas/air mixtures, usually measures the concentration in terms of the lower explosive limit, and is known as a _____.	toxic vapor meter	flame safety lamp	gas absorption detector	combustible gas indicator	
15	1053	B	A person manning a fire hose under pressure with an all-purpose nozzle attached, should be aware that the nozzle is most difficult to control when the handle position is changed from _____.	solid stream to fog	shut to solid stream	low velocity to high velocity fog	fog to shut	
15	1054	A	When should distress flares and rockets be used?	Only when there is a chance of them being sighted by rescue vessels.	They should be set off at half-hour intervals.	They should be set off at one-hour intervals.	Immediately upon abandoning the vessel.	
15	1055	D	Physical data on a Material Safety Data Sheet (MSDS) which describes chemicals that produce health effects requiring medical attention where damage may be permanent but is neither life-threatening nor seriously disabling, is called _____.	moderate exposure level	high toxicity	high exposure level	moderate toxicity	
15	1056	B	Emergency signals for use on a river passenger vessel are to be listed on/in the _____.	bunk card	muster list	vessel's logbook	ship's articles	
15	1057	C	If a person with diabetes has been injured, the symptoms of the onset of a diabetic coma would include _____.	reduced appetite and thirst	sneezing and coughing	excessive thirst and fever	slurred speech and loss of coordination	

15	1058	C	The most effective method in the use of a CO2 fire extinguisher is for the discharge to be directed at the _____.	middle of a fire	top and sides of a fire	base or nearest edge of a fire	highest flames of a fire	
15	1059	D	Which of the following items is NOT required to be contained in the vessel's oil transfer procedures?	A line diagram of the vessel's oil transfer piping.	The number of persons on duty during oil transfer operations.	Any special procedures for topping off tanks.	The location and capacity of all fuel and cargo tanks on the vessel.	
15	1060	B	If a raft is to be released manually, where should the operating cord be attached before throwing the raft overboard?	Do not attach the cord to anything but throw it overboard with the raft container.	To some fixed object on the ship.	Stand on it with your foot.	To the special pad eye on the "raft davit launcher".	
15	1061	A	Burning wood is considered to be which of the listed classes of fire?	Class A	Class B	Class C	Class D	
15	1062	C	A specific document identifies a chemical, listing its physical properties, health hazards, required controls, firefighting procedures, clean up methods, waste disposal, and the safe handling and storage requirements. This document is a _____.	Hazardous Chemical Information Sheet	Physical/Chemical Characteristics Document	Material Safety Data Sheet	Hazardous Chemical Loading Document	
15	1063	B	A chemical material, as listed on a Material Safety Data Sheet (MSDS) that can undergo a sudden and violent release of pressure and heat is called _____.	combustible	explosive	flammable	toxic	
15	1064	D	When firing a pyrotechnic distress signal, it should be aimed _____.	into the wind	straight ahead	at the vessel whose attention you want to attract	approximately 60° above the horizon	
15	1065	A	Most lifeboats are equipped with _____.	unbalanced rudders	balanced rudders	contraguide rudders	straight rudders	
15	1066	C	The maximum lowering speed for a lifeboat on gravity davits must not be more than _____.	70 feet per minute	114 feet per minute	256 feet per minute	none of the above	
15	1067	B	Epilepsy is a chronic nervous disorder characterized by _____.	severe nausea and cramps	muscular convulsions with partial or complete loss of consciousness	sudden thirst and craving for candy	severe agitation and desire to get out of close spaces	
15	1068	B	Which of the following statements describes the correct method to use when applying CO2 from a portable fire extinguisher?	Bounce the CO2 off the bulkhead.	Apply CO2 to the base of the flames in a sweeping motion.	Apply the CO2 to the center of the flames with a beating motion.	Direct the CO2 in as near a vertical upward direction as possible.	
15	1069	A	The oil transfer procedures aboard a tanker transferring oil are NOT required to contain _____.	the name of the person designated as the person in charge of transfer	a line diagram of the vessel's oil transfer piping	special procedures for topping off tanks	a description of the deck discharge containment system	
15	1070	C	Which of the following operations should be carried out when launching an inflatable liferaft by hand?	Open the liferaft casing	Turn the valve on the CO2 cylinder to start inflation	Make sure the operating cord is secured to the vessel before throwing it over the side	After inflation, detach operating cord from liferaft	
15	1071	B	The "flammable limits" of an atmosphere are the _____.	two temperatures between which an atmosphere will self-ignite	upper and lower percentage of vapor concentrations in an atmosphere which will burn if an ignition source is present	upper and lower pressures between which an atmosphere will not burn	two temperatures between which an atmosphere will burn if an ignition source is present	
15	1072	D	The instrument shown in the illustration is used to indicate the _____.	oxygen content of the atmosphere	diesel exhaust analysis by volume	boiler stack gas analysis by weight	concentration of explosive gases in a tank	See illustration number(s): SF-0003

15	1073	D	A high velocity fog nozzle will produce the most effective spray pattern when the water pressure is not less than _____.	35 psi (241.3 kPa)	60 psi (413.6 kPa)	75 psi (517.0 kPa)	100 psi (689.4 kPa)	
15	1074	A	When using a handheld smoke signal in a lifeboat, you should _____.	activate the signal on the downwind side	activate the signal on the upwind side	activate the signal inside the boat	activate the signal at the stern	
15	1075	C	A chemical material, as listed on a Material Safety Data Sheet (MSDS) that supplies oxygen required to start or support fire is called a/an _____.	irritant	polymerization hazard	oxidizer	toxin	
15	1076	D	Material listed on a Material Safety Data Sheet (MSDS) that violently self-reacts under commonly occurring conditions is called _____.	pyrophoric	toxic	explosive	unstable	
15	1077	D	The most beneficial assistance for a person having an epileptic convulsion is to _____.	give the victim artificial respiration	completely restrain the victim	give the victim one 30mg tablet of phenobarbital	keep him from injuring himself	
15	1078	B	For which of the listed classes of fire combinations would carbon dioxide be most suitable as the extinguishing agent?	Class "A" and class "B"	Class "B" and class "C"	Class "A" and class "C"	Class "C", class "D", and class "E"	
15	1079	D	The transfer procedures for oil products are required to be posted _____.	in the pilothouse	in the officer's lounge	in the upper pumproom flat	where they can be easily seen or readily available	
15	1080	B	As a vessel sinks to a depth of 15 feet, the hydrostatic trip releases the liferaft container from its cradle by _____.	breaking the weak link	releasing the tie-down strap	pulling the operating cord	releasing the CO2 canister	
15	1081	B	Which of the statements listed is accurate concerning fires involving carbon tetrachloride?	It will explode if exposed to a flame.	Phosgene gas may be formed if it comes in contact with hot metal.	It will burn rapidly once ignited.	You cannot use water to fight the fire because it will react with the carbon tetrachloride.	
15	1082	B	What is the purpose of an explosimeter?	To identify combustible gases.	To detect combustible gases.	To indicate the absence of oxygen.	All of the above.	
15	1083	C	The bayonet catch on an all purpose nozzle is used to latch in place the _____.	mechanical foam nozzle	mechanical foam pick up tube	high velocity fog tip	chemical foam applicator	
15	1084	A	Which of the items in the lifeboat equipment listed would be the most suitable for night signaling to a ship on the horizon?	A red parachute flare	A red handheld flare	A flashlight	A lantern	
15	1085	B	A chemical material, as listed on a Material Safety Data Sheet (MSDS), that can spontaneously burst into flames when exposed to air at temperatures below 130,F (55.5,C) with no ignition source needed, is called _____.	explosive	pyrophoric	unstable	flammable	
15	1086	C	Prior to lowering the lifeboat, the most important item to check is the _____.	oars	sail	boat plug	life preservers	
15	1087	B	While providing assistance to a victim of an epileptic seizure, it is most important to _____.	move a patient to a comfortable bed	get professional medical advice for further medical care	keep the patient awake and make him walk if necessary to keep him awake	remove any soiled clothing and put the patient in a clean bed	
15	1088	D	What term is listed on a Material Safety Data Sheet (MSDS) to describe a chemical that can produce life-threatening or seriously disabling health hazard ?	Low toxicity	Recommended toxicity	Moderate toxicity	High toxicity	
15	1089	C	Your vessel is taking on bunkers from a shore side facility. If oil begins flowing from one tank vent, which of the following actions should be taken FIRST?	Open the intake valve to an adjacent tank.	Set out drip pans and sawdust and begin to mop up the spill.	Signal the shore control point to shutdown.	Close the valve on the tank vent line.	

15	1090	C	If the hydrostatic release mechanism for an inflatable liferaft is not periodically serviced and becomes inoperable, it will fail to _____.	set the water lights on immersion	release the dyemarker from the liferaft	free the liferaft from the vessel	break the seal on the carbon dioxide cylinder	
15	1091	A	A fire in a pile of linen is considered to be a class _____.	A fire	B fire	C fire	D fire	
15	1092	D	A combustible gas indicator is used to determine _____.	if there is sufficient oxygen to support life	the toxicity of flammable gases or vapors	the amount of CO <sub>2</sub> present in flue gas	the presence of flammable gases or vapors in the air	
15	1093	A	The device shown in the illustration and indicated by the letter "E" holds the _____.	low velocity fog applicator in the all-purpose nozzle	mechanical foam nozzle in the all-purpose nozzle	mechanical foam pickup tube in the all-purpose nozzle	chemical foam applicator in the all-purpose nozzle	See illustration number(s): SF-0011
15	1094	C	Which of the following visual distress signals is acceptable for daylight use only?	Handheld red flare	Self-contained rocket propelled parachute red flare	Orange smoke signal	Red aerial pyrotechnic flare	
15	1095	B	What term is listed on a Material Safety Data Sheet (MSDS) to describe a chemical that produces only minor health effects that usually heal with or without medical attention when exposure stops?	Moderate toxicity	Low toxicity	Lower exposure limit	Moderate exposure limit	
15	1096	D	Which health hazard term is listed on a Material Safety Data Sheet (MSDS) to indicate that contact with the substance will freeze body tissue on contact?	Freeze hazard	Cyanosis	Freon hazard	Cryogenic	
15	1097	B	Appendicitis symptoms include cramps or pain in the abdomen located in the _____.	lower left side	lower right side	upper left side	upper right side	
15	1098	B	If the chemical material is a mixture, what must the Material Safety Data Sheet (MSDS) identify?	Paints or coatings that are safe to use with it.	The name of each hazardous ingredient.	Other similar mixtures of liquids, solids or gases.	None of the above.	
15	1099	D	Your vessel is taking on fuel oil when a small leak develops in the hose and you have ordered the pumping stopped. Before resuming pumping you should _____.	notify the terminal superintendent	place a large drip pan under the leak and plug the scuppers	repair the hose with a patch	replace the hose	
15	1100	A	What is the purpose of the liferaft hydrostatic release?	To release raft from the cradle automatically as the ship sinks	To inflate the raft automatically	To test rafts hydrostatically	None of the above	
15	1101	B	A written document identifying chemical material, listing its physical properties, describing health hazards, required controls, correct procedures for firefighting, spill or leak cleanup, waste disposal, and the safe handling and storage of the material, is called an _____.	HCIS	MSDS	PELS	PPES	
15	1102	D	The instrument shown in the illustration has not been used for several weeks. Prior to its use for testing a compartment, you should _____.	check or renew the batteries	purge the meter	adjust the meter pointer to zero	all of the above	See illustration number(s): SF-0003
15	1103	B	The high velocity fog tip used with the all-purpose firefighting nozzle should always be _____.	stowed separately in a clip or rack at each fire station	attached to the all-purpose nozzle by a chain	coated with heavy grease to prevent corrosion	painted red to be identified as emergency equipment	
15	1104	C	Most enclosed lifeboats or covered survival capsules will automatically right themselves if they capsize. This will occur when which of the following conditions exists?	The lower ballast tanks are filled with water.	The fuel tanks are not less than half full.	The passengers are strapped to their seats.	The sea anchor is deployed to windward.	

15	1105	C	According to Code of Federal Regulations 33, grinders or comminutors used for the discharge of garbage between 3 and 12 nautical miles from the nearest land must be _____.	provided with flush back capabilities insuring the passage of all ground particles through a final control element	provided on all vessels that may operate on the Great Lakes and shall discharge under the highest load line of the vessel	capable of reducing the size of garbage so that it will pass through a screen with openings no greater than 25 millimeters	capable of processing all garbage generated onboard the vessel including all deck and engine department refuse	
15	1106	A	Material listed on a Material Safety Data Sheet (MSDS) referring to more than one chemical is called a _____.	mixture	combination	multi-material	toxin	
15	1107	C	Which of the following symptoms would be indicated if a person's appendix ruptured?	Dilated pupils and shallow breathing	Diarrhea and frequent urination	Muscle tenseness in almost the entire abdomen	Extreme sweating and reddening skin	
15	1108	B	The physical data term on a Material Safety Data Sheet (MSDS) describing whether a liquid is lighter or heavier than water is _____.	solubility	specific gravity	viscosity	flotation point	
15	1109	A	The explosive range of a mixture of flammable vapors and air lies between the lower and upper explosive limits. These limits are specified as a percentage of _____.	flammable vapor by volume in air	the lower limit of explosibility of the mixture	oxygen present to support combustion	the temperature of the flash point	
15	1110	D	A hydrostatic release mechanism for a liferaft _____.	must be wet before it will release	should be kept in a watertight cover except in an emergency	will inflate the raft in its cradle if operated manually	must be submerged to a certain depth to release automatically	
15	1111	C	While loading bulk oil, you notice oil on the water near the barge. Which of the following actions should you carry out FIRST?	Search the vessel for leaks	Notify terminal superintendent	Stop loading	Notify the Coast Guard	
15	1112	D	Before entering a fuel tank that has been cleaned, it should be checked with an oxygen indicator and a/an _____.	Orsat apparatus	flame safety lamp	Halide torch	combustible gas indicator	
15	1113	B	The all-purpose, or combination nozzle is capable by itself of producing a solid stream of water _____.	only	and high velocity water fog	and low velocity water fog	and high and low velocity water fog	
15	1114	B	Which of the following conditions is NOT a function of the covered lifeboat pressurized air supply?	Provides combustion air for the diesel engine.	Pressurizes the water spray system.	Provides air for passenger respiration.	Prevents smoke and other noxious fumes from entering craft.	
15	1115	D	The physical data term on a Material Safety Data Sheet (MSDS) that indicates if the vapor formed by a material is lighter or heavier than air is called _____.	vapor pressure	vapor gravity	vapor level	vapor density	
15	1116	B	In a closed container of liquid, the force exerted by vapor on the walls of the container above the liquid surface is called _____.	storage pressure	vapor pressure	over-pressure	reactive pressure	
15	1117	C	When a patient is suspected of having appendicitis, the primary action is to _____.	give patient a laxative to relieve pain	give patient morphine sulfate to relieve pain	evacuate patient to a hospital	give patient aspirin with a glass of water	
15	1118	D	What does the vapor pressure listed in Section III of a Material Safety Data Sheet (MSDS) indicate?	How fast a chemical gets into the air.	How much of the chemical can evaporate.	Whether the vapor is lighter or heavier than air.	How much force the vapor exerts inside a closed container.	
15	1119	B	The upper explosive limit (UEL) of a mixture of flammable vapors and air is defined as _____.	that concentration above which there is just enough flammable vapor to produce an explosion	that concentration above which the mixture is too rich to burn	the percentage of flammable vapor by volume in air sufficient to create an explosion	the percentage of oxygen present in the air sufficient to support combustion	
15	1120	D	If you wish to remove an inflatable liferaft from its cradle, the best way to free it is by _____.	cutting the restraining strap	unscrewing the turnbuckle on the back of the cradle	lifting one end of the raft	pushing the plunger on the center of the hydrostatic release	

15	1121	A	When you notice oil on the water near your vessel while taking on fuel, you should FIRST _____.	stop loading	notify the senior deck officer	notify the terminal superintendent	determine whether your vessel is the source	
15	1122	A	A chemical material, as listed on a Material Safety Data Sheet (MSDS) that reacts with water or moist air, and produces a health or physical hazard, is called _____.	water-reactive	toxic	flammable	combustible	
15	1123	B	The physical difference of the water spray patterns developed by the high velocity tip and low velocity applicator is due to _____.	a difference in water pressure	the method of breaking up the water stream	the type of fire being fought	the capacity of the fire pump	
15	1124	D	Your vessel is equipped with totally enclosed lifeboats. Which of the following statements is correct should the boat be enveloped in flames?	The ventilators will automatically close by the action of fusible links.	The diesel engine will take its air supply from outside the lifeboat to prevent asphyxiation of the crew.	A water spray system to cool the outside of the boat is operated by a high-volume manual pump.	A pressurized air tank will provide approximately ten minutes of air for the survivors and the diesel engine.	
15	1125	A	According to Coast Guard regulations (33 CFR), which of the following describes items pertinent to waste management plans?	A description of the vessel's procedure for collecting, processing, storing and discharging garbage shall be provided.	The plan will include the responsibilities of all personnel required to assist in the collection of garbage onboard the vessel.	If the vessel is over forty feet in length, the plan shall be submitted in writing to the Officer In Charge of Marine Inspection.	No official plan in writing is required; however, all established routines shall continue to be adhered to and followed.	
15	1126	B	Virtual waste is _____.	the final discharge of sewage treatment plants	any garbage that comes from food or food provisions	the resultant sludge that is collected after waterwashing a boiler	the final waste product of a manufacturing process	
15	1127	A	When a patient is suspected of having appendicitis, the pain should be relieved by _____.	keeping a ice bag over the location of the appendix	giving the patient a laxative	giving the patient morphine sulfate	giving the patient aspirin with a glass of water	
15	1128	A	According to Code of Federal Regulations 33, a vessel operating upon the Great Lakes shall _____.	not discharge any garbage into these waters	be required to re-distill all water used for cooling or condensate systems	have its forward most frame members sufficiently stiffened to prevent ice damage	be certified for inland use only	
15	1129	B	Ethylene oxide has a lower explosive limit of 2.0% and an upper explosive limit of 100% by volume in air. This means _____.	there is no possible ethylene oxide concentration in air which is too lean to burn	there is no possible ethylene oxide concentration in air which is too rich to burn	an ethylene oxide spill always results in an explosion	a 2.0% concentration of ethylene oxide in air would give a reading of 2.0% on a combustible gas indicator	
15	1130	D	A lifeline must be connected to the liferaft _____.	at the bow	at the stern	in the middle	all around	
15	1131	B	You are taking on fuel when you notice oil in the water around your vessel. You should immediately stop fueling and _____.	begin cleanup operation	notify the U.S. Coast Guard	leave the area	notify the Army Corps of Engineers	
15	1132	B	According to Code of Federal Regulations (33 CFR 151), who is responsible for insuring that a ship is not operated unless a waste management plan is utilized?	U.S. Coast Guard	Vessel's Master	Vessel owner	Vessel operating company	
15	1133	C	The significant difference between the high velocity fog tip and the low velocity fog applicator used with the all-purpose nozzle is the _____.	difference in available water pressure	number of personnel required to effectively use each of them	degree to which the water stream is broken up	ability to exclude free oxygen	
15	1134	C	Most totally enclosed lifeboats are equipped with _____.	tanks for the storage of drinking water	ballast tanks to prevent the boat from capsizing	buoyant oars and paddles	auxiliary mechanical propulsion (Fleming gear)	



15	1135	C	According to Code of Federal Regulations (33 Part 151), which of the following statements is accurate concerning the discharge of garbage?	The discharge of plastic or garbage mixed with plastic into any waters is permitted.	The discharge of dunnage, lining, and packing materials that do not float is prohibited within 25 nautical miles of the nearest land.	The discharge of all garbage is prohibited in the navigable waters of the United States and in all other waters within three nautical miles of the nearest land.	All of the above are correct.	
15	1136	D	According to Code of Federal Regulations (33 Part 151), a person who discharges plastic or garbage mixed with plastic is liable for _____.	a civil penalty	criminal penalty for class D felony	imprisonment	All of the above	
15	1137	C	Seasickness is caused by rolling or rocking motions which affect fluids in the _____.	stomach	lower intestines	inner ear	bladder	
15	1138	B	A health hazard term listed on a Material Safety Data Sheet (MSDS) that indicates allergic-like reaction in some people after repeated exposure is _____.	skin contact hazard	sensitizer	pyrophoric hazard	oxidizer	
15	1139	D	The explosive range of methane is 5% to 15% by volume in air. This means a vapor/air mixture of _____.	3 percent methane by volume is too rich to burn	20 percent methane by volume is too lean to burn	10 percent methane by volume is too rich to burn	5 percent methane by volume will give a reading of 100 percent L.E.L. on a combustible gas indicator	
15	1140	D	Which of the devices listed will prevent an inflated liferaft from being pulled under by a vessel which sinks in water over 100 feet deep?	The hydrostatic release	A shear pin	A rottmer release	A weak link in the painter	
15	1141	D	If you detect oil in the water around your vessel while discharging fuel, the FIRST thing to do is _____.	try to find out where the oil is coming from	call the Master	have the pumpman check the discharge piping	shutdown operations	
15	1142	C	A chemical that causes a substantial proportion of exposed people or animals to develop an allergic reaction in normal tissue after repeated exposure is listed on a Material Safety Data Sheet (MSDS) as a _____.	skin contact hazard	physical hazard	sensitizer	skin absorption hazard	
15	1143	C	The correct name for the device shown in the illustration, is a/an _____.	suicide nozzle	fog applicator	combination nozzle	in-line fog nozzle	See illustration number(s): SF-0011
15	1144	D	Progressive flooding on a MODU may be indicated by _____.	ballast control alarms	excessive draft	excessive list or trim	a continual worsening of list or trim	
15	1145	C	The device illustrated would be used to extinguish _____.	mattress fires	fires in an electronics console	small oil fires on the engine room floor plates	fires in an ullage opening	See illustration number(s): SF-0006
15	1146	B	A vessel which is subjected to "hogging" has its _____.	main deck under compressive stress	main deck plating under strake stress	bottom plate under compressive stress	bottom and deck plating under compressive stress	
15	1147	B	Symptoms of seasickness include _____.	fever and thirst	nausea and dizziness	stomach cramps and diarrhea	reddening of skin and hives	
15	1148	A	Except in rare cases, it is impossible to extinguish a shipboard fire by _____.	removing the fuel	removing the heat	interrupting the chain reaction	removing the oxygen	
15	1149	D	A patient suffering from heat exhaustion should first be _____.	placed in a sitting position with the head lowered to the knees	kept standing and encouraged to walk slowly and continuously	given a glass of water and told to return to work after 15 minutes of rest	directed to move to a cool space unassisted	
15	1150	A	Using a sea anchor will _____.	reduce the drift rate of the liferaft	keep the liferaft from turning over	aid in recovering the liferaft	increase your visibility	

15	1151	A	While taking on fuel, you notice oil on the water around the vessel. Which of the following actions should be taken FIRST?	Stop fueling	Notify the dispatcher	Notify the terminal superintendent	Determine if your vessel is the source	
15	1152	C	Carbon dioxide extinguishers must be recharged when the weight is less than?	80%	85%	90%	95%	
15	1153	B	With the handle in position "A", the device shown in the illustration will produce _____.	low velocity fog	a solid stream	no water flow	high velocity fog	See illustration number(s): SF-0011
15	1154	B	What information can be obtained from a marine chemist's certificate issued to an offshore supply vessel?	The vessel's stability information	The tanks which were safe to enter when the certificate was issued	The number of fire extinguishers required to be aboard	The quality of fuel in the vessel's tanks	
15	1155	C	When the height of the metacenter is less than the height of the center of gravity, a vessel has what type of stability?	Stable	Neutral	Negative	Positive	
15	1156	A	If the metacentric height is small, a floating MODU will _____.	be tender	have a quick and rapid motion	be stiff	yaw	
15	1157	B	The primary concern in aiding a back injury patient is _____.	relieving the patient's pain by giving aspirin or stronger medication	avoiding possible injury to the spinal cord by incorrect handling	preventing convulsions and muscle spasms caused by the injury	providing enough fluids to prevent dehydration	
15	1158	D	The most practical method of extinguishing a class "A" fire, involving burning dunnage, is to use _____.	chemical foam	a hand portable CO2 extinguishers	Purple K powder and light water	water	
15	1159	D	Each personal flotation device light on a MODU that has a non-replaceable power source must be replaced _____.	every six months after initial installation	every 12 months after initial installation	every 24 months after initial installation	on or before the expiration date of the power source	
15	1160	A	An inflatable liferaft is thrown into the water from a sinking vessel. Which of the following actions occurs automatically after the painter trips the CO2 bottles to inflate the raft?	The sea anchor is deployed.	The floor inflates.	If upside down, the craft will right itself.	The painter detaches from the raft.	
15	1161	C	If you observe any situation which presents a safety or pollution hazard during fuel transfer operations, which of the following actions should be taken FIRST?	Close the valves at the transfer manifold.	Notify the person in charge of the shore facility.	Shut down the transfer operation.	Sound the fire alarm.	
15	1162	D	A patient suffering from heat exhaustion should first be _____.	given a mild seawater solution to drink to replace salt and fluids	kept standing and encouraged to walk slowly and continuously	given a glass of water and told to return to work after 15 minutes of rest	moved to a cool room and told to lie down	
15	1163	A	In order to produce a high velocity water fog using an all-purpose nozzle, you must _____.	pull the nozzle handle halfway back	push the nozzle handle completely forward	insert an in-line fog applicator	change to a small nozzle tip after changing the position of the nozzle handle	
15	1164	C	Which of the following should NOT be done for a person who has fainted?	Provide fresh air	Loosen clothing	Elevate head	Stimulate face with cold water	
15	1165	D	Tank stripping is accomplished more effectively by using a _____.	a multistage centrifugal pump	the load on top system	the water displacement method	a positive displacement pump	
15	1166	B	The combined fan discharge rate in an inert gas system is related to the _____.	shoreside loading rate	maximum cargo pump discharge rate	boiler forced draft fan rate	size of the largest cargo tank	
15	1167	D	The symptoms of a fractured back are _____.	leg cramps in the muscles in one or both legs	pain and uncontrolled jerking of the legs and arms	vomiting and involuntary urination or bowel movement	pain at the site of the fracture and possible numbness or paralysis below the injury	

15	1168	C	To fight a large class "A" fire contained in a closed compartment, the nozzleman should open a door enough to insert the hose nozzle and initially _____.	sweep a straight stream around the compartment	hold the nozzle steady while applying a straight stream in the area where he suspects the source of the fire to be	sweep a fog stream around the compartment	hold the nozzle steady and direct a fog stream in the area where he suspects the fire	
15	1169	D	If an incorrect entry were made in the Oil Record Book, you should _____.	erase the entry and rewrite it	notify the ship's officer-in-charge	completely black it out and make the correct entry alongside	draw a single line through the wrong entry and initial it	
15	1170	A	Generally, when lifting an inflatable liferaft back aboard ship, you would use the _____.	towing bridle	main weather cover	external lifelines	righting strap	
15	1171	D	While taking on fuel oil, the transfer hose begins leaking, causing a sheen on the water. You should _____.	apply dispersants to the sheen	repair the leak with duct tape	reduce the rate of transfer	shut down operations	
15	1172	B	The sections of an Oil Record Book preceding the log pages contain a _____.	damage control plan for isolating firemain valves	list of machinery space operation items	complete classification of hazardous materials	detailed listing of all organizations to call in the event of an accidental oil spill	
15	1173	B	When the handle "A" is in the mid-position of the combination nozzle shown in the illustration, which of the following statements will be correct?	Low velocity fog will be emitted from the part labeled "D".	High velocity fog will be emitted from the part labeled "D".	A solid stream will be emitted from the part labeled "B".	No water will be emitted from the nozzle.	See illustration number(s): SF-0015
15	1174	B	Which statement regarding garbage disposal is correct?	Records for ground garbage disposal are not required when disposal into the sea occurs more than 25 miles offshore.	Discharging or transfer of garbage while in port to a shore facility must be recorded.	Maintaining records for the incineration of garbage aboard ship is not required.	The recording of garbage disposal should include the approximate weight.	
15	1175	B	When dumping garbage into the sea, other than special areas, _____.	the U.S. Coast Guard must be notified for each occurrence	records must be provided and maintained for two years	an entry into the official log book must be made	no record is required if dumping is carried out more than 25 miles offshore and there is no included plastic material	
15	1176	A	A crack, located in the shell plating or deck plating of a ship, may be temporarily prevented from increasing in length by _____.	drilling a hole at each end of the crack	installing welded brackets across both ends	V-grooving and welding from both sides of the crack	cutting a square notch at each end of the crack	
15	1177	B	Which of the following procedures can be used for checking for spinal cord damage to an unconscious patient?	Beginning at the back of the neck, and proceeding to the buttocks, press the spine to find where it hurts.	Prick the skin of the hands and the soles of the feet with a sharp object to check for reaction.	Selectively raise each arm and each leg and watch patient's face to see if he registers pain.	Roll patient onto his stomach and prick along the length of his spine to check reaction.	
15	1178	D	Which of the following methods should be used to prevent a class "A" fire in a topside compartment, with steel bulkheads, from spreading to the adjacent compartments?	Sweep the exterior bulkheads with a solid stream of water until the fire is reportedly extinguished.	Sweep the exterior bulkheads with a solid stream of water until steam is no longer produced, secure the nozzle, and repeat as necessary.	Sweep the exterior bulkheads with water fog until the fire is reportedly extinguished.	Sweep the exterior bulkheads with water fog until steam is no longer produced, secure the nozzle, and repeat as necessary.	
15	1179	C	Which of the listed procedures should be followed when individuals are rescued in cold climates and suffer from hypothermia?	Give them brandy	Get them to a hot room	Immerse them in a warm bath 104°F (40°)	Cover with an electric blanket set for maximum temperature	
15	1180	A	The inside light in an inflatable liferaft is turned on _____.	automatically as the liferaft inflates	with a switch near the boarding handle	at night because the light has a photosensitive switch	by screwing the bulb in after the raft is inflated	

15	1181	D	How much warning must be provided by the CO2 warning alarm before CO2 is discharged into a space?	5 seconds	10 seconds	15 seconds	20 seconds	
15	1182	B	CO2 extinguishes a fire by _____.	a blanket of bubbles formed on the surface of the fire	smothering	cooling	isolating the heat from the fuel	
15	1183	D	When the handle is in position "B", and piece "D" is in place, the device shown in the illustration will produce _____.	no flow	a solid stream	low velocity fog	high velocity fog	See illustration number(s): SF-0011
15	1184	A	First aid treatment for battery acid or alkali burns, especially in the eyes, includes _____.	flushing with large amounts of fresh water and seeking medical attention ashore or by radio	wiping the affected area with a clean dry cloth and resting quietly for several hours	drying the acid or alkali with a rag followed by applying a light cream	all of the above may be acceptable treatments depending on the severity of the burn	
15	1185	C	Normal mouth temperature is _____.	96.4°F (35.7°)	97.5°F (36.4°)	98.6°F (37.0°)	99.7°F (37.6°)	
15	1186	C	Where would you look to find out what your duties are during a fire?	Coast Guard Regulations	Certificate of Inspection	Muster list	Ship's articles	
15	1187	D	An effective method for lifting and carrying patients with spinal injuries is known as the _____.	pack strap carry	two man extremities carry	fireman's drag	four man log roll	
15	1188	A	The most effective method of extinguishing a class "A" fire is by _____.	quenching and cooling	using a sodium based dry chemical	blanketing and smothering	using nonconducting extinguishers	
15	1189	C	You can find the location of your abandon ship post by checking the _____.	vessel's logbook	vessel's documentation	muster list	Certificate of Inspection	
15	1190	D	The lights on the outside of the canopy of an inflatable liferaft operate _____.	by turning the globe clockwise	by a switch at each light	by a light sensor	automatically when the raft is inflated	
15	1191	A	Part 156 of the Pollution Prevention Regulations concerns _____.	transfer operations and procedures	vessel design	large oil transfer facilities	equipment	
15	1192	C	When off loading garbage to another ship, your records must identify that ship by name and _____.	home port	operator's name of record	official number	master's name	
15	1193	A	When the handle is in position "C", the device shown in the illustration will produce _____.	no water flow	a solid stream	low velocity fog	high velocity fog	See illustration number(s): SF-0011
15	1194	D	The best means of combating an oil fire on the surface of the water surrounding a vessel tied to the pier, is to use _____.	water fog over the fire	solid water streams directly into the fire	dry chemical around the fire	foam directed against the vessel's side	
15	1195	A	Your assigned emergency stations aboard your vessel can be found on the ship's _____.	muster list	certificate of inspection	clearance papers	permit to proceed	
15	1196	B	Fire and lifeboat stations are required to be listed on the _____.	ship's articles	muster list	bunk card	forecastle card	
15	1197	C	When administering first aid you should avoid _____.	any conversation with the patient	instructing bystanders	unnecessary haste and appearance of uncertainty	touching the patient	
15	1198	B	The best extinguishing agent for fighting a burning mattress fire is the use of _____.	carbon dioxide	water in a solid stream	foam	dry chemical	
15	1199	C	In order to find out which lifeboat you are assigned, you should look at the _____.	fire control plan	certificate of inspection	muster list	ship's articles	
15	1200	D	After launching, an inflatable raft should be kept dry inside by _____.	opening the automatic drain plugs	draining the water pockets	using the electric bilge pump	using the bailers and cellulose sponge	
15	1201	D	The authority to grant an alternate procedure for oil transfer operations rests with the _____.	Nearest Coast Guard office	Officer-in-Charge, Marine Inspection	Area Commander	Captain of the Port	
15	1202	D	Coast Guard Regulations 46 CFR, stipulate that in addition to emergency signals, muster lists must specify _____.	actions to be taken by persons on board when each signal is sounded	the order to abandon the vessel	the duties assigned to different members of the crew	all of the above	

15	1203	C	With the handle of the device shown in the illustration is in the position labeled "C" the nozzle will deliver _____.	a fog	a spray	no flow	a solid stream	See illustration number(s): SF-0011
15	1204	A	A vessel trimmed down by the bow has _____.	a greater draft forward than aft	zero trim	a low mean draft	a greater draft aft than forward	
15	1205	B	According to Pollution Prevention Regulations (33 CFR), the maximum allowable working pressure (MAWP) for each hose assembly used for transferring oil must be _____.	at least 600 psi (4.14 MPa)	more than the sum of the pressure of the relief valve setting	at least four times the sum for the pressure of the relief valve setting	more than the maximum pump pressure when a relief valve is not installed	
15	1206	C	When working around deck machinery it is a good safety practice to avoid standing in a "bight" because _____.	it doesn't allow for proper faking of the line	the coil may become tangled and difficult to manage	a sudden yank on the line may trap your leg	a flemish may quickly knock you down	
15	1208	B	Which of the following fire extinguishing agents is best suited for use on a large class "B" fire occurring on the open deck of a vessel?	CO2	Aqueous film forming foam	Dry chemical	Steam smothering system	
15	1209	C	What is the required gas supply capacity of an inert gas system?	125% of forced draft rate	125% of shore side loading rate	125% of cargo pump capacity	125% of fan capacity	
15	1210	C	When making a permanent repair to an inflatable liferaft using a repair kit, how long after the repair is made should you hold off "topping up" the lost air?	You do not have to hold off	12 hours	24 hours	2 hours	
15	1211	C	An application for an exemption of any requirements of the regulations for oil transfer operations must be submitted to the _____.	District Commander	Commandant	Captain of the Port	Nearest Coast Guard office	
15	1212	D	An inert gas system is designed to reduce the possibility of tank explosions by _____.	eliminating sparks and fire in the vicinity of cargo tanks	removing all hydrocarbon gases from the cargo tanks	blanketing cargo tanks with inert foam	reducing the oxygen concentration below levels necessary for combustion	
15	1213	C	According to Pollution Prevention Regulations (33 CFR), the pump being used for cargo transfer has a relief valve setting of 65 psi and a static head of 10 feet. The vessel's cargo hose used for the transfer must have a maximum allowable working pressure of at least _____.	55 psi	65 psi	70 psi	98 psi	
15	1214	A	The amount of garbage disposed must be entered into the records maintained by each ship and stated in _____.	cubic meters	barrels, measured in 55 gallon drums	weight in either kilogram or pounds	cubic yards convertible to long tons	
15	1215	B	Which unit will provide excellent mobility to the wearer in an unsafe atmosphere and provide oxygen to sustain life?	A fresh air breathing apparatus	A self-contained breathing apparatus	An ammonia gas mask	All of the above	
15	1216	D	According to Pollution Prevention Regulations (33 CFR), the pump being used for cargo transfer has a relief valve setting of 65 psi and a static head of 10 feet. The vessel's cargo hose used for the transfer must have a maximum allowable working pressure of at least _____.	55 psi	98 psi	at least four times the sum for the pressure of the relief valve setting plus static head pressure	at least more than the sum of the pressure of the relief valve setting plus the static head pressure	
15	1217	B	The sorting of accident victims according to the severity of their injuries is called _____.	evaluation	triage	surveying	prioritizing	
15	1218	C	Which of the following statements is correct concerning fire hoses used within the machinery spaces of cargo vessels, on which the fire main installations were contracted for on, or after 26 May 1965?	The fire hoses must be in 75 foot lengths.	The fire hoses must be 1 1/2 inches in diameter or less.	The fire hoses must be of the lined type.	The fire hoses must all be fitted with approved 5/8 inch nozzles.	

15	1219	A	Which of the following statements is true concerning fire hose used in the engine room of a offshore supply vessel?	It must be marked with the name of the vessel.	National Standard fire hose coupling threads shall be used having 9 threads per inch for 2 1/2 inch hose and 7 1/2 threads per inch for 1 1/2 inch hose.	In heavy weather, the hose may be removed temporarily from the hydrant.	All of the above.	
15	1220	C	In each inflatable raft, what piece of equipment is provided to make quick, emergency, temporary repairs to a cut, or rip in a raft?	There is no equipment provided	Glue and rubber patches	Several various-sized repair clamps	Self-adhesive rubberized canvas patches	
15	1221	D	An applications for a waiver of any requirements of the regulations for oil transfer operations must be submitted _____.	the day before the operations	5 days before the operations	10 days before the operations	30 days before the operations	
15	1222	B	Firehose can be used for purposes other than firefighting service when _____.	used for portable water service	used for drills and testing	determined by the Chief Engineer	approved by OCMI	
15	1223	A	The three positions of an all-purpose fire nozzle are _____.	forward: off, center: fog, back: solid stream	forward: solid stream, center: fog, back: off	forward: fog, center: solid stream, back: off	forward: off, center: solid stream, back: fog	
15	1224	C	A tankship has 40 gallons (152 l) of 6% foam concentrate aboard. Approximately how much foam solution can be produced from this supply?	200 gallons (757 l)	420 gallons (1.6 kl)	667 gallons (2.5 kl)	986 gallons (3732 l)	
15	1225	D	Why should you wear a self-contained breathing apparatus before entering a closed compartment to fight a fire?	The fire produces carbon monoxide which causes an oxygen deficiency in the brain and body, leading quickly to death.	The fire produces smoke, which contains toxic gases that cause breathing difficulties and irritation of the respiratory tract.	The fire consumes oxygen which may lead to asphyxiation.	All of the above.	
15	1226	C	The relief valve on a fire pump is set at 25 psi (1.75 kPa) above the pressure necessary to maintain the required fire hose streams, or _____.	50 psi (345 kPa)	75 psi (517 kPa)	125 psi (862 kPa)	150 psi (1034 kPa)	
15	1228	D	When fighting the fire depicted in figure 1 of the illustration, which letter denotes where the attack hoseline would be used?	A	C	D	E	See illustration number(s): SF-0013
15	1229	B	In figure 2 of the illustration, which letter designates the compartment into which the attack hoseline would be led?	A	B	C	D	See illustration number(s): SF-0013
15	1230	D	You are assigned to patrol the boundaries of the fire shown in figure 1 of the illustration. What signs would indicate the fire was spreading to an adjacent compartment?	Bulkhead is hot.	Paint on bulkhead is blistering.	Temperature inside compartment is higher than outside.	All of the above.	See illustration number(s): SF-0013
15	1231	B	No person may serve as the person-in-charge of oil transfer operations on more than one vessel at a time _____.	under any circumstances	unless authorized by the Captain of the Port	unless radio communication is set up between the vessels	unless the vessels are moored clear of all docks	
15	1232	B	What is the purpose of opening the doors and portholes in figure 2 of the illustration?	To keep the hose teams cool.	To allow venting of combustion products from the fire to the atmosphere.	To provide airflow around the compartment in the order to contain the fire.	To allow water used to fight the fire to flow out of the superstructure.	See illustration number(s): SF-0013
15	1233	D	A solid stream of water is produced by an all-purpose firefighting nozzle when the handle is _____.	pushed all the way forward	pushed forward one notch	pulled halfway back	pulled all the way back	
15	1234	B	The tendency of a ship to resist a change in trim is _____.	the righting arm couple	longitudinal stability	metacentric height	transverse inclination	

15	1235	B	You are wearing a self-contained breathing apparatus while fighting a fire in an enclosed space. If sudden strong resistance to breathing is experienced, your first action should be to _____.	tug twice on your lifeline and slow your breathing until help arrives	retreat immediately to outside air	take a deep breath and remove your apparatus for adjustment	give two or three strong exhalations to increase the flow through the apparatus	
15	1236	C	A vessel sailing through the specific special areas may discharge or dispose of _____.	incinerated ash at anytime	fairly dense material that will sink, i.e. metal cans or glass bottles at anytime	victual waste when at least 12 nautical miles from shore	absolutely no garbage at anytime	
15	1237	D	Where there are multiple accident victims, which injuries should be the FIRST to receive emergency treatment?	Major multiple fractures	Eye injuries	Back injuries with spinal cord damage	Airway and breathing difficulties	
15	1238	C	In order to complete ventilation of the compartments shown in figure 2 of the illustration, you should _____.	close the portholes in compartments A and C	open the door and portholes in compartment B	do nothing	close the door in compartment D	See illustration number(s): SF-0013
15	1239	D	The airflow depicted in figure 1 of the illustration is an example of which type of ventilation?	Horizontal.	Vertical.	Parallel.	Combination.	See illustration number(s): SF-0013
15	1240	A	When launching an inflatable liferaft, you should make sure that the operating cord is _____.	fastened to some substantial part of the vessel	not fastened to anything	secured to the hydrostatic release	fastened to the raft container	
15	1241	D	No person may serve as the person-in-charge of both the vessel and the facility during oil transfer operation unless _____.	there is ready access between the two	the vessel and facility are immediately adjacent	the person in charge has a rapid means of transportation between the two	the Captain of the Port authorizes such procedure	
15	1242	D	How does an inert gas system on a tanker function to prevent explosions in cargo tanks?	De-energizes the "charged mist" effect.	Maintains a positive pressure on the vent header to cool the flammable vapors.	Inert gas filters out the flammable vapors from the cargo tank spaces.	Inert gas dilutes the flammable vapor and air concentrations to keep them below the lower explosive limit.	
15	1243	B	With the handle in the position labeled "A", shown in the illustration, the nozzle will deliver _____.	a low velocity fog	a solid water stream	no water flow	minimum water flow	See illustration number(s): SF-0011
15	1244	C	The addition of weight at the longitudinal center of flotation will _____.	increase the forward draft and decrease the after draft	decrease the forward draft and increase the after draft	have no effect on the trim	have no effect on the stability	
15	1245	D	When you are wearing a self-contained breathing apparatus, you should immediately return to fresh air if you feel _____.	heat in the canister or hose	excess air flow in the mask	two pulls on the safety line	nauseous, dizziness or high breathing resistance	
15	1246	B	The type of ventilation shown in figure 2 of the illustration is _____.	vertical	horizontal	parallel	cross-flow	See illustration number(s): SF-0013
15	1247	A	Where there are multiple accident victims, which type of injury should be the first to receive emergency treatment?	Severe shock	Eye injuries	Burns	Major multiple fractures	
15	1248	C	In the illustration shown, figure 1 depicts _____ type ventilation, while figure 2 depicts _____ type ventilation.	horizontal; vertical	vertical; combination	combination; horizontal	cross-flow; horizontal	See illustration number(s): SF-0013
15	1249	C	In figure 1 of the illustration, fire would spread to compartment B by the following method: I. radiation II. convection III. conduction	I	II	III	I and III	See illustration number(s): SF-0013
15	1250	B	The purpose of the four water pockets, located on the underside at each corner of the raft, is to _____.	stow rainwater; these four spaces will not take up valuable space	act as stabilizers by filling with sea water as soon as raft is inflated and in an upright position	hold the freshwater required by regulation to be provided in the raft when packed	none of the above	
15	1251	B	The process that occurs when heat is generated by a chemical reaction within a substance and continues to a point of ignition is known as _____.	chemical ignition	spontaneous combustion	chemical combustion	radiation ignition	

15	1252	C	An inert gas system on a tanker should be used to _____.	prevent the generation of flammable or combustible gas in tanks	blow out cargo lines to prevent gas concentrations	dilute tank atmospheres to keep gas concentrations below the lower explosive limit	prevent fires in the pumphouse by continually displacing flammable vapors	
15	1253	A	The low velocity fog applicator used in conjunction with the all-purpose firefighting nozzle, should always be _____.	stored in the rack when not in actual use	attached to the nozzle by the chain	coated with heavy grease to prevent corrosion	left in place in the all-purpose nozzle	
15	1254	A	You are in charge of the hose team assigned to cool the upper boundaries of the fire shown in figure 1 of the illustration. Which hose would you use to safely accomplish this task? I. Hose I II. Hose II	I	II	Both I and II	Neither I or II	See illustration number(s): SF-0013
15	1255	A	What should you do when the alarm bell on a self-contained breathing apparatus sounds?	Immediately evacuate the contaminated area.	Open the bypass valve on the regulator and immediately evacuate the contaminated area.	Move the reserve lever to the "reserve" position on the regulator and reset the alarm so you can evacuate the area when it sounds again.	Move the tank selector lever to the full tank position and reset the alarm so you can evacuate the area when it sounds again.	
15	1256	A	To serve as the person in charge of oil transfer operations onboard a self-propelled tank vessel, an individual must _____.	be a certified tankerman (PIC)	be licensed only	be 30 years old	have a letter from the company stating his qualification	
15	1257	B	In managing a situation involving multiple injuries, the rescuer must be able to _____.	provide the necessary medication	rapidly evaluate the seriousness of obvious injuries	accurately diagnose the ailment or injury	prescribe treatment for the victim	
15	1258	A	When an oil fire has been extinguished, the surface of the oil should be kept covered with foam to prevent _____.	air from contacting the oil vapors permitting reignition	boiling of the heated oil	spontaneous combustion below the oil surface	toxic fumes from escaping to the surface	
15	1259	B	If the maximum quantity of carbon dioxide required to be maintained aboard a cargo vessel is 2450 pounds (1111 kg), the minimum pipe size of the fixed system branch lines to the various spaces will be _____.	1.5 inches (3.8 cm)	2.0 inches (5.08 cm)	2.5 inches (6.35 cm)	3.0 inches (7.62 cm)	
15	1260	B	Water pockets on the under side of an inflatable liferaft are for _____.	catching rain water	stability	easy drainage	maneuverability	
15	1261	D	Through which of the listed processes is heat produced in spontaneous ignition?	Aeration	Anaerobic decomposition	Putrefaction	Oxidation	
15	1262	A	According to Coast Guard Regulations (46 CFR), a 10 pound dry chemical extinguisher is equivalent to a _____.	15 pound (6.8 kg) CO2 fire extinguisher	1 3/4 gallon (6.6 l) foam	35 pound (15.8 kg) CO2 fire extinguisher	12 gallon (45 l) foam	
15	1263	C	Which of the following statements is correct regarding the fog applicators used in conjunction with the combination nozzle?	All cargo and miscellaneous vessels must be equipped with high velocity fog applicators for use with the required combination nozzle at each station.	In machinery spaces, the applicators should be 10 to 12 feet in length to insure all portions of the bilge can be effectively reached.	On container ships, an applicator termed a bayonet or piercing type utilizes a sharp tip for cutting and penetrating the metal skin of a container.	All of the above.	
15	1265	D	While wearing a self-contained breathing apparatus, the user must be aware of the bulkiness of the unit in order to avoid confined spaces. Of what other limitations should the user be aware?	The weight of the unit changes the user's center of gravity.	The lens of the facepiece reduces the user's peripheral vision.	The attached lifeline limits the user's mobility.	All of the above.	
15	1266	D	Each pressure gage used in an oil transfer operation must be accurate to within _____.	1 percent	3 percent	5 percent	10 percent	



15	1267	C	After an injury, which of the following can be determined by examining the condition of a victim's pupils?	The degree of pain being suffered.	The degree of vision impairment.	Whether or not the brain is functioning properly.	Whether or not the victim's blood pressure is normal.	
15	1268	B	When fighting an oil or gasoline fire, which of the listed fire extinguishing agents should NEVER be sprayed directly into the fire?	High velocity fog	Dry chemical	Low velocity fog	Steam smothering	
15	1269	A	In the event of a fire, the doors to a stairtower must be closed to prevent the spread of fire by _____.	convection	conduction	radiation	ventilation	
15	1270	A	What is placed on the under side of an inflatable liferaft to help prevent it from being skidded by the wind or overturned?	Ballast bags	A keel	Strikes	Sea anchor	
15	1271	A	Hazardous conditions exist which may result in spontaneous combustion when _____.	oil soaked rags are stowed in the machine shop	powdered aluminum is stowed dry	dry metal turnings accumulate	all of the above	
15	1272	D	A person suffering from possible broken bones and internal injuries should _____.	be examined then walked to a bunk	be assisted in walking around	not be allowed to lie down where injured but moved to a chair or bunk	not be moved but made comfortable until medical assistance arrives	
15	1273	C	What is the primary purpose of a spint applied in first aid?	Reduce pain	Control bleeding	Immobilize a fracture	Reset the bone	
15	1274	B	Bleeding from a vein may be ordinarily controlled by _____.	pinching the wound closed	applying direct pressure to the wound	heavy application of a disinfectant	pouring ice water directly into the wound	
15	1275	D	A wiper has a small, gaping laceration of the arm that is not bleeding excessively. What can be done as an alternative to suturing to close the wound?	Apply a copression bandage.	Use temporary stitches of sail twin.	Wrap a tight bandage around the wound.	Apply butterfly strips, then a sterile dressing.	
15	1276	A	During oil transfer operations, who would be responsible to guarantee that the posted transfer procedures are being followed?	The designated person in charge	The tankerman	The senior able seaman	The oiler	
15	1277	B	When it is necessary to remove a victim from a life threatening situation, the person giving first aid must _____.	pull the victim by the feet	avoid subjecting the victim to any unnecessary disturbance during movement	not move the victim to a another location until all injuries have been assessed	place the victim on a stretcher before attempting removal	
15	1278	A	The longer an oil fire is permitted to burn, the _____.	harder it is to extinguish	easier it is to extinguish	less chance there is of reignition	easier it is to control	
15	1279	B	You have abandoned ship and are in charge of a life raft. How much water per day should you permit each occupant to drink after the first 24 hours?	1 can	1 pint	1 quart	1 gallon	
15	1280	B	On most makes of inflatable liferafts, the batteries to operate the light on the inside of the rafts can be made to last longer by _____.	unscrewing the bulb during the daylight	operating the switch for the light	taking no action as there is no way of preserving power	taking no action as they shut off automatically in daylight	
15	1281	B	Fires resulting from spontaneous combustion are usually caused by the improper disposal of _____.	cigarette butts	oily rags	burner torches	lighted matches	
15	1282	D	Changing rescuers while carrying out artificial respiration should be done _____.	at ten minute intervals	by not stopping the respiration for more than five minutes	only with the help of two other people	without losing the rhythm of respiration	
15	1283	A	The correct name for the devices shown in the illustration is a/an _____.	low velocity fog applicator	in-line foam applicator	high velocity fog applicator	smooth bore water nozzle	See illustration number(s): SF-0026
15	1284	C	You are attempting to administer CPR to a victim. When you blow into his mouth it is apparent that no air is getting into the lungs. What should you do?	Raise the victim's head higher than his feet.	Blow harder to force the air past the tongue.	Re-tip the head and try again.	Press on the victim's lungs so that air pressure will blow out any obstruction.	

15	1285	B	To safely enter a closed compartment, where CO2 has been released from a fixed extinguishing system, you should _____.	test the air with an Orsat apparatus	wear a self-contained breathing apparatus	wear a canister type gas mask	test the air with an explosimeter	
15	1286	D	A person on a fixed, or floating platform engaged in oil exploration, located 10 nautical miles from nearest land MAY discharge _____.	food waste	food, ground to less than 1"	paper, ground to less than 1"	none of the above	
15	1287	A	First aid treatment for small cuts and open wounds is to _____.	stop the bleeding, clean, medicate, and cover the wound	lay the patient down and cover the wound when the bleeding stops	apply an ice pack to the wound and cover it when the bleeding stops	apply a hot towel to purge the wound, then medicate and cover it	
15	1288	C	Immediately after a class "B" fire has been extinguished by the use of foam, crewmen should _____.	carefully apply a low velocity fog over the foam blanket	wade through the foam blanket to evenly distribute the foam	be careful not to disturb the foam blanket	sweep the foam blanket overboard and secure firefighting equipment	
15	1289	D	In all but the most severe cases, bleeding from a wound should be controlled by _____.	applying a tourniquet	cooling the wound with ice	submerging the wound in lukewarm water	applying direct pressure to the wound	
15	1290	D	The air spaces in the floor of an inflatable raft will provide protection against _____.	warm water temperatures	cold water temperatures	tears in the outside skin of bottom of the raft	all of the above	
15	1291	B	Spontaneous combustion can result from _____.	water dripping on a running electric motor	oil soaked rags stored in a closed compartment	smoking in a battery room or near a battery storage locker	an open flame near a fuel tank vent	
15	1292	B	Which of the devices listed would be safe to use in a compartment with insufficient oxygen?	Cascaded air tanks.	Self-contained breathing apparatus.	Canister type mask.	Dust or gas mask.	
15	1293	D	Which of the following statements is true concerning a low velocity fog tip?	It is usually kept in the nozzle when stowed.	It sprays large droplets.	It is chained to the combination nozzle.	It sprays a fine mist.	
15	1294	B	A person has suffered a laceration of the arm. Severe bleeding has been controlled by using a sterile dressing and direct pressure. What should you do next?	Apply a tourniquet to prevent the bleeding from restarting.	Apply a pressure bandage over the dressing.	Remove any small foreign matter and apply antiseptic	Administer fluids to assist the body in replacing the lost blood.	
15	1295	A	According to Coast Guard Regulations (46 CFR), a pressurer-demand, open circuit, self contained breathing apparatus shall have a minimum _____ minutes air supply.	30	45	60	90	
15	1296	A	No person may discharge garbage from a vessel located near a fixed or floating platform engaged in oil exploration at a distance of less than _____.	1650 feet	1850 feet	2000 feet	2500 feet	
15	1297	A	Which of the following methods is a convenient and effective system of examining the body of an injury victim?	Compare the corresponding parts of the body.	Watch the patient's eyes as you probe parts of the body.	Look for discoloration of the patient's skin.	Look for uncontrolled vibration or twitching of parts of the body.	
15	1298	C	Which of the fire extinguishing agents listed is the most effectively used for putting out a paint locker fire?	Solid stream of water	Soda acid extinguisher	Carbon dioxide	Carbon tetrachloride	
15	1299	B	Antiseptics are used principally to _____.	speed healing	prevent infection	reduce inflammation	increase blood circulation	
15	1300	D	The air spaces in the floor of an inflatable liferaft will provide protection against _____.	asphyxiation from CO2	loss of air in the sides of the raft	rough seas	cold water temperatures	
15	1301	C	Spontaneous combustion can occur in _____.	paint thinner in an open can	fuel accumulated in the bilges	oily rags stored in an unvented compartment	gasoline stored in steel drums	
15	1302	C	The rescuer can best provide an airtight seal during mouth-to-mouth resuscitation by pinching the victim's nostrils and _____.	cupping a hand around the patient's mouth	keeping the head elevated	applying his mouth tightly over the victim's mouth	holding the jaw down firmly	

15	1303	D	Prior to inserting a low velocity fog applicator into the nozzle shown in the illustration, you must _____.	move the handle to position "B"	remove the device indicated by the letter "E"	move the handle to position "A"	remove the device indicated by the letter "D"	See illustration number(s): SF-0011
15	1305	A	Why should you wear a self-contained breathing apparatus before entering the engine room after the fixed CO2 system has been discharged to combat a major fire?	Because carbon dioxide dilutes the oxygen concentration in the atmosphere and may cause asphyxiation.	Because carbon dioxide breaks down in a fire into carbon monoxide which may cause blood poisoning in the person breathing this gas.	Because carbon dioxide is a colorless and odorless gas that becomes highly toxic in the presence of high temperatures and will quickly incapacitate a person exposed to this gas.	This action is unnecessary as carbon dioxide is not poisonous nor toxic but is a relatively harmless gas.	
15	1306	C	A person on a fixed or floating platform engaged in oil exploration MAY discharge food waste into the sea when the distance from the nearest land is at least _____.	3 nautical miles	5 nautical miles	12 nautical miles	25 nautical miles	
15	1307	C	When giving first aid, you should understand how to conduct primary and secondary surveys in addition to _____.	which medications to prescribe	how to diagnose an illness from symptoms	the limits of your capabilities	how to set broken bones	
15	1308	A	Which of the listed fire extinguishing agents would be incorrect for the direct use on a gasoline or oil fire?	A solid stream of water	Low velocity water fog	High velocity water fog	Mechanical firefighting foam	
15	1309	B	Which of the following is classified as a grade "E" combustible liquid?	Benzene	Bunker "C"	Very light naphtha	Most commercial gasoline	
15	1310	C	One feature of an inflatable raft which helps keep people stationary in rough weather is the set of _____.	lashings on the floor of the raft for the passenger's feet	straps hanging from the overhead	safety straps on the inside of the raft	ridges in the floor of the raft	
15	1311	B	In which of the areas listed is a fire resulting from spontaneous combustion most likely to occur?	Engine room bilges	Paint locker	Battery storage locker	Fuel oil tank	
15	1312	B	According to Coast Guard Regulations (46 CFR), which of the listed CO2 (carbon dioxide) fire extinguishers by size is classified as B-II?	5 lbs (2.27 kg)	15 lbs (6.81 kg)	25 lbs (11.35 kg)	35 lbs (15.89 kg)	
15	1313	D	Before inserting a low velocity fog applicator into an all-purpose combination nozzle, you must _____.	tighten the high velocity fog tip	put the control handle in the solid steam position	put the control handle in the fog position	remove the high velocity fog tip	
15	1314	C	A squeeze-grip type carbon dioxide portable fire extinguisher has been partially discharged. It should be _____.	replaced in its proper location regardless of weight	replaced in its proper location if weight loss is no more than 15%	labeled empty and recharged as soon as possible	replaced in its proper location if weight loss is no more than 25%	
15	1315	D	Which statement is FALSE regarding Halon as a fire extinguishing agent?	It is more effective than CO2.	It leaves no residue.	It is noncorrosive.	It is always non-toxic.	
15	1316	C	Which of the circumstances listed is an exception to the garbage discharge requirements in Annex V to MARPOL 73/78?	The garbage to be discharged will sink.	Garbage accumulation onboard has exceeded storage space.	A person falls overboard, and a plastic ice chest is thrown for flotation.	The destination port or terminal cannot receive garbage.	
15	1317	D	If a victim is unconscious, you should first look for evidence of _____.	high fever	head injury	broken limbs	irregular breathing	
15	1318	D	Which of the fire extinguishing agents listed can be used to effectively combat a class B fire?	Dry chemical	CO2	Foam	All of the above	
15	1319	A	An example of a combustible liquid is _____.	lube oil	gasoline	butane	benzene	
15	1320	A	The canopy of your liferaft should _____.	go into place as the raft is inflated	be put up after everyone is aboard	be put up only in severe weather	be used as a sail if the wind is blowing	
15	1321	D	The most likely place for a fire to start through the process of spontaneous combustion is in _____.	an electrical switchboard	the pressure tanks	the fuel oil tanks	the oily rag bin	
15	1322	D	When welding or burning aboard a vessel, you must be certain that the space _____.	is properly vented	contains no explosive fumes	has no oil in the bilges	all of the above	

15	1323	A	To prepare a low velocity fog applicator for use, _____.	replace the high velocity tip with the fog applicator and pull the handle to the middle position	insert the applicator in the solid stream outlet of the all-purpose nozzle and pull the handle back half way	replace the high velocity tip with the applicator and pull the handle back all the way back	insert the applicator in the solid stream outlet of the all-purpose nozzle and pull the handle back to the solid stream position	
15	1324	D	Which statement is TRUE regarding Halon as a fire extinguishing agent?	It is more effective than CO2.	It leaves no residue.	It is noncorrosive.	All of the above.	
15	1325	C	To prevent the spread of fire by convection you should _____.	remove combustibles from direct exposure	cool the bulkhead around the fire	close all openings to the area	shut off electrical power	
15	1326	D	The term "discharge", as it applies to the pollution regulations, means _____.	spilling	leaking	dumping	all of the above	
15	1327	A	You are fighting a class "B" fire with a potable dry chemical extinguisher. The discharge should be directed _____.	at the seat of the fire, starting near the edge	over the top of the fire	at the main body of the fire	to bank off a bulkhead onto the fire	
15	1328	C	If a small fire initially breaks out in the engine room bilges, in which of the following sequences should the fire extinguishing agents or systems be used?	Fixed CO2, semi-portable CO2, then hand portable CO2.	Semi-portable CO2, fixed CO2, then hand portable CO2.	Hand portable, semi-portable CO2, then as a last resort the fixed CO2 system.	Hand portable, fixed CO2, then as a last resort the semi-portable CO2.	
15	1329	B	The vapors given off by heated fuel oil are flammable, explosive, and _____.	lighter than air	heavier than air	odorless	nontoxic	
15	1330	A	Generally, which of the following gases is used to inflate liferafts?	CO2	Oxygen	Hydrogen	Compressed air	
15	1331	D	The chief source of spontaneous combustion aboard tankers is _____.	JP4 cargo	gasoline cargo	kerosene cargo	oil soaked rags or rubbish	
15	1332	D	Fire prevention during welding or burning aboard any vessel should include _____.	posting a fire watch in the immediate area	providing an extinguisher which is ready for immediate use	requiring the fire watch to remain on post for 30 minutes after the completion of welding or burning	All of the above.	
15	1333	A	Before inserting a low velocity fog applicator into the device shown in the illustration, you must place the handle in _____.	position "C", operate catch "E", and remove piece "D"	position "B", secure the water pressure, and turn piece "D" to your right	position "A", depress piece "D", and open catch "E"	position "C", secure the water pressure, and turn piece "D" to your left	See illustration number(s): SF-0011
15	1334	B	Which extinguishing agent is most likely to allow reflash as a result of not cooling the fuel below its ignition temperature?	Foam	CO2	Water stream	Water foam	
15	1335	D	You are about to enter a compartment to investigate a suspected smoldering fire. If you're not wearing a self-contained breathing apparatus, you should test the compartment's atmosphere to determine if there is/are _____.	sufficient oxygen to sustain human life	an explosive mixture in the compartment	a toxic atmosphere in the compartment	all of the above	
15	1336	A	If it becomes necessary to pump bilges while a vessel is in port, which of the following procedures should be followed?	Pump only if the discharge is led to a shore tank or barge.	Pump only during the hours of darkness.	Pump only on the outgoing tide.	Pump only as much as is necessary.	
15	1337	D	When fighting a fire in an enclosed space, the hose team should crouch as low as possible to _____.	protect themselves from smoke	obtain the best available air	allow the heat and steam to pass overhead	All of the above	
15	1338	A	You have just extinguished an oil fire on the floor plates of the engine room with a 15 pound CO2 extinguisher. Which of the listed dangers should you now be preparing to handle?	Reflashing of the fire.	Sudden stoppage of the main engine.	Complete lack of oxygen in the engine room.	Chemical reaction of the CO2 and oil forming carbonic acid.	
15	1339	B	The vapors given off by heated fuel oil are heavier than air and are _____.	odorless	explosive	nontoxic	visible	

15	1340	D	Liferafts are less maneuverable than lifeboats due to their _____.	shape	shallow draft	large sail area	all of the above	
15	1341	D	All of the following are part of the fire triangle EXCEPT _____.	fuel	oxygen	heat	electricity	
15	1342	A	If flammable vapors have penetrated a gas free space, which of the following actions would be the most hazardous thing to carry out?	Opening switches in the space to de-energize circuits.	Closing switches in the space to operate vent fans.	Leaving electrical circuits energized in the space.	Securing all power to the space from a remote location.	
15	1343	D	A low velocity fog applicator is retained in an all-purpose nozzle by a bayonet joint. The applicator is prevented from rotating in the joint by _____.	water pressure	a locknut	a keeper screw	a spring-loaded catch	
15	1344	B	In order to discharge a CO2 portable fire extinguisher, the operator must FIRST _____.	open the discharge valve	remove the locking pin	invert the CO2 extinguisher	squeeze the two trigger handles together	
15	1345	D	A person reports to you with a fishhook in his thumb. To remove it you should _____.	have a surgen remove it	pull it out with pliers	cut the skin from around the hook	push the barb through, cut it off, then remove the hook	
15	1346	D	The minimum bursting pressure for each cargo hose assembly must be at least _____.	300 psi	400 psi	500 psi	600 psi	
15	1347	C	A tourniquet should be used to control bleeding ONLY _____.	with puncture wiounds	when the victim is unconscious	when all other means have failed	to prevent bleeding from from minor wounds	
15	1348	B	The best way to combat an engine room bilge fire is through the use of a _____.	dry chemical extinguisher and solid stream water	foam extinguisher and low velocity water fog	foam extinguisher and solid stream water	foam and soda acid extinguishers	
15	1349	D	Diesel fuel vapors _____.	can not be ignited by a spark unless the vapor is in a confined space	are nontoxic in all concentrations	can not be ignited by a spark unless they are at their autoignition temperature	are heavier than air	
15	1350	D	You have abandoned ship and are in an inflatable raft that has just inflated. You hear a continuous hissing coming from a fitting in a buoyancy tube. Which of the following statements identifies the cause of this situation?	The saltwater is activating the batteries of the marker lights on the canopy.	The inflation pump is in automatic operation to keep the tubes full inflated.	A deflation plug is partially open allowing the escape of CO2.	Excess inflation pressure is bleeding off and should soon stop.	
15	1351	B	You are alone and administering CPR to an adult victim. How many chest compressions and how many inflations should you administer in each sequence?	5 compressions then 1 inflation	15 compressions than 2 inflations	20 compressions then 3 inflations	30 compressions then 4 inflations	
15	1352	B	Which of the following procedures reduces the possibility of an interior ventilation duct fire from rapidly spreading?	Having a portable CO2 ready at each duct opening.	Keeping the duct interior clean.	Having a fire hose charged at each duct opening.	Keeping the duct exterior clean.	
15	1353	A	The date of each fire and boat drill conducted on a MODU must be recorded _____.	in the official logbook	in the Operations Manual	on the Certificate of Inspection	on the station bill	
15	1354	D	To produce a low velocity water fog spray with an all-purpose fire hose nozzle, you must _____.	push the nozzle handle completely forward	change the fire pump discharge pressure	pull the nozzle handle completely back	insert a low velocity fog applicator	
15	1355	C	Two people are administering CPR to a victim. How many times per minute should the chest be compressed?	30	45	60	80	
15	1356	A	No vessel may use or carry an oil transfer hose larger than three inches in diameter unless it meets certain requirements. Which of the following is NOT a requirement?	Metallic reinforcement	A bursting pressure greater than 600 psi	A working pressure greater than 150 psi	Identification markings	
15	1357	C	You are administering chest compressions during CPR. Where on the victim's body should the pressure be applied?	Tip of the sternum	Top half of the sternum	Lower half of the sternum	Left chest over the heart	

15	1359	D	Which of the following statements is true concerning Bunker "C" vapors?	They can not be ignited by a spark unless the vapors are in a confined space.	They are nontoxic in all concentrations.	They can not be ignited by a spark unless vapors are at their autoignition temperature.	They are heavier than air.	
15	1360	A	You have just abandoned ship and boarded a liferaft. After the raft is completely inflated you hear a whistling noise coming from a safety valve. You should _____.	not become alarmed unless it continues for a long period of time	plug the safety valve	unscrew the deflation plugs	remove the safety valve and replace it with a soft patch	
15	1361	D	When applying chest compressions on an adult victim during CPR, the sternum should be depressed about _____.	1/2 inch or less	1/2 inch to 1 inch	1 inch to 1-1/2 inches	1-1/2 inch to 2 inches	
15	1362	C	Which of the practices listed should be avoided since it represents a fire hazard?	Smoking near the burner front	Smoking in the machine shop	Stowing oily rags in a paint locker	Stowing portable acetylene bottles in the vertical position	
15	1363	C	When administering mouth to mouth resuscitation to an adult, you should breathe at the rate of how many breaths per minute?	4	8	12	20	
15	1364	D	The MOST important element in administering CPR is _____.	having the proper equipment for the process	treating for shock	administering of oxygen	starting the treatment quickly	
15	1365	A	Most totally enclosed lifeboats are equipped with which of the following?	A hydraulic start diesel engine	Tanks for the storage of drinking water	Ballast tanks to prevent the boat from capsizing	Auxiliary mechanical propulsion (Fleming gear)	
15	1367	D	The lifeline which is part of a fireman's outfit must be _____.	made of steel or bronze wire rope	corrosion resistant	not less than 50 feet in length	All of the above	
15	1368	A	A hand portable CO2 fire extinguisher is effective on burning oil only _____.	if applied promptly	if applied in connection with foam	to prevent rekindling	if attempts to extinguish the fire with low velocity fog have failed	
15	1369	D	When taking on fuel it is important to remember that petroleum vapors are _____.	not volatile unless the ambient air temperature exceeds 90,F	lighter than air and dissipate rapidly	unlikely to ignite except in the presence of an open flame	heavier than air and may enter the bilges and/or deckhouse	
15	1370	D	If you hear the sound of a gas escaping from the liferaft just after it has inflated, you should _____.	quickly hunt for the hole before the raft deflates	check the sea anchor line for a tear if the seas are rough	check the painter line attachment for a tear caused by the initial opening	not panic as the relief valves allow excess pressure to escape	
15	1371	A	The oxygen indicator is an instrument that measures the _____.	the amount of oxygen in the atmosphere of a confined space	amount of combustible gas as a percentage of the lower explosive limit in a confined space	concentration of CO2 as a percentage of oxygen in a confined space	None of the above	
15	1372	C	A simple precaution to reduce the possibility of accidental fires in the paint locker, is to _____.	label the fixed firefighting system	store paint cans on metal shelves only	not allow oily rags to accumulate in the space	place a portable fire extinguisher immediately outside the locker	
15	1373	C	You are at sea in an inflatable liferaft. In high latitudes, the greatest danger is _____.	collapse of the raft due to cold temperatures	asphyxiation due to keeping the canopy closed	hypothermia caused by cold temperature	starvation	
15	1374	D	You have abandoned ship in tropical waters. Which procedure(s) should be used during a prolonged period in a raft?	Wet clothes during the day to decrease perspiration.	Get plenty of rest.	Keep the entrance curtains open.	All of the above.	

15	1375	D	The only portable electrical equipment permitted in a compartment which is not gas free is a lamp that is _____.	battery fed	self-contained	approved explosion proof	All of the above	
15	1378	C	The fixed CO2 fire extinguishing system has been activated to extinguish a large engine room bilge fire. When is the best time to vent the combustible products from the engine room?	Immediately after the fire is extinguished.	One half-hour after the fire is extinguished.	After the metal surfaces have cooled down.	Before any personnel in fireman outfits reenter the engine room.	
15	1379	C	A characteristic of most petroleum vapors is that they are _____.	lighter than air	not explosive at low temperatures	heavier than air	inert in stable air	
15	1380	D	If more than one liferaft is manned after the vessel has sunk, _____.	each raft should go in a different direction in search of land	the possibility of a search aircraft finding you is increased by spreading out	reduce the number of rafts by getting as many people as possible into as few rafts as possible	tie each of the rafts together and try to stay in a single group	
15	1381	B	Wooden shoring, with a cross-sectional dimension of 4" X 4" (10.2 cm X 10.2 cm) should not be longer than _____.	8 feet (2.43 m)	10 feet (3.048 m)	16 feet (4.87 m)	20 feet (6.09 m)	
15	1383	D	Which of the petroleum products listed has a flash point below 150°F (65.5°C)?	Lubricating oils	Road oils	Asphalt	Light fuel oils	
15	1384	A	The oil transfer procedures required onboard vessels with a capacity of 250 or more barrels (39.7 cubic meters or more) of oil must contain _____.	a line diagram of the vessel's oil transfer piping	procedures for fighting oil fires	procedures for cleaning up oil spills	All of the above	
15	1385	D	You have just extinguished an oil fire on the floor plates of the engine room with a 15 pound (6.8 kg) CO2 extinguisher. Which of the dangers listed should be prepared for next?	Complete lack of oxygen in the engine room.	Chemical reaction of the CO2 and oil forming carbonic acid.	Sudden stoppage of the main engine.	Rekindling of the fire.	
15	1386	D	Which of the devices listed will prevent an inflated liferaft from being pulled under by a vessel which sinks in water over 100 feet (30.48 m) deep?	The hydrostatic release	A shear pin	A rottmer release	A weak link in the painter	
15	1387	D	A crewmember has a small, gaping laceration of the arm that is not bleeding excessively. What can be done as an alternative to suturing to close the wound?	Apply a copression bandage.	Use temporary stitches of sail twin.	Wrap a tight bandage around the wound.	Apply butterfly strips, then a sterile dressing.	
15	1388	D	Which dangerous condition should be kept in mind after using a 15 pound CO2 fire extinguisher on a small oil fire on the engine room floor plates?	Possible suffocation from the CO2 gas.	Forgetting to secure the engine room ventilation system.	CO2 gas being drawn into nearby engine or air compressor intakes.	Rekindling of the fire.	
15	1389	C	Petroleum vapors are heavier than air and _____.	will normally dissipate rapidly	will always form explosive vapors below 32,F ambient	may collect in ship's bilges	are of no concern if the wind is blowing	
15	1390	D	When a ship is abandoned and there are several liferafts in the water, one of the FIRST things to be done is _____.	separate the rafts as much as possible to increase chances of detection	transfer all supplies to one raft	transfer all the injured to one raft	secure the rafts together to keep them from drifting apart	
15	1391	C	An extinguishing agent which effectively cools, dilutes combustible vapors,removes oxygen, and provides a heat and smoke screen is _____.	Halon 1301	dry chemical	water fog	carbon dioxide	
15	1392	A	When approaching a fire from winward, you should shield firefighters from the fire by using _____.	low-verlocity fog	high-velocity fog	a straight stream of water	foam spray	
15	1393	D	The best method of extinguishing a class A fire is to _____.	remove oxygen from the area	smother fire with foam	smother fire with CO2	cool fuel below igiton temperature	
15	1394	D	Which portable fire extinguiser is normally recharged in a shore facility?	Dry chemical (cartidge-operated)	Water (cartidge-operated)	Water (pump tank)	Carbon dioxide	
15	1395	B	Which extinguishing agent is the best for use on electrical fires?	Foam	CO2	Dry Chemical	Water fog	

15	1396	D	During annual inspection, each nonmetallic oil transfer hose must not burst, bulge, leak, or abnormally distort under a static liquid pressure of at least _____.	100 pounds	the pressure of the relief valve setting	the pressure applied by the shoreside pump	1 1/2 times the maximum allowable working pressure	
15	1397	C	The most effective way of applying carbon dioxide from a portable extinguisher to a fire is by _____.	forming a cloud cover over the flames	discharging the carbon dioxide into the heat of the flames	directing the gas at the base of the flame in a slow sweeping motion	bouncing the discharge off an adjacent bulkhead just above the burning service	
15	1398	B	Which of the listed fire extinguishing agent combinations is the best for simultaneous use on a large oil fire?	A solid stream of water in conjunction with CO2.	Water fog used in conjunction with foam.	CO2 applied in conjunction with foam.	CO2 applied in conjunction with dry chemical.	
15	1399	A	The rate of expansion of heated fuel oil is _____.	approximately 1% for each 25°F (13.9°C) temperature rise	calculated in British Thermal Units	measured by weight	also called absolute viscosity	
15	1400	D	You have abandoned ship in tropical waters. Which of the following procedures should be used during a prolonged period in a liferaft?	Wet clothes during the day to decrease perspiration.	Get plenty of rest.	Keep the entrance curtains open.	All of the above.	
15	1401	D	It is necessary to cool the bulkheads and decks surrounding a compartment where there is a fire in order to _____.	cool the metal below its ignition temperature	form a dense coating of smothering steam	prevent oxygen from reaching the flames	prevent the fire from spreading by the conduction of heat	
15	1402	D	Where should muster lists be posted?	In crew's accommodation spaces	On the navigating bridge	In the engine room	All of the above	
15	1403	C	In the fire main system, quick cleaning strainers are located at the _____.	pump suction	pump discharge	fire hydrants	hose nozzle	
15	1404	D	On a tanker, the most likely location for a liquid cargo fire to occur would be _____.	in the midships house	at the main deck manifold	at the vent header	in the pumproom	
15	1405	D	Records of tests and inspections of all fire extinguishing systems onboard a cargo vessel shall be kept onboard _____.	for 1 year	for 2 years	until the next Coast Guard inspection	for the period of validity of the vessel's current Certificate of Inspection	
15	1406	D	If you see an individual fall overboard, you should _____.	throw them a life ring	hail "Man overboard"	pass the word to the bridge	all of the above	
15	1407	A	According to U.S. Coast Guard Regulations (46 CFR), if a fixed foam system is activated aboard a tank vessel, constructed in 1968, you can expect the foam supply to last for a minimum of _____.	3 minutes	7 minutes	12 minutes	15 minutes	
15	1408	C	Which of the listed extinguishing agents is NOT suitable for fighting a liquid paint fire?	Dry chemical	Foam	Water	Carbon dioxide	
15	1409	B	As its temperature rises, the volume of fuel oil in the tanks will _____.	remain the same	increase	decrease	none of the above	
15	1410	C	While adrift in an inflatable liferaft in hot, tropical weather _____.	the canopy should be deflated so that it will not block cooling breezes	the pressure valve may be periodically opened to prevent excessive air pressure	deflating the floor panels may help to cool personnel	the entrance curtains should never be opened	
15	1411	A	The heat generated by a fire will be transferred through a bulkhead or deck, as a result of _____.	conduction	radiation	convection	advection	
15	1412	C	According to U.S. Coast Guard Regulations (46 CFR), portable Halon fire extinguishers used on a MODU may be charged with _____.	HALON 1301 only	HALON 22 only	HALON 1211 only	HALON 1301 or 1211	
15	1413	C	According to U.S. Coast Guard Regulations (46 CFR), a 10 pound dry chemical extinguisher is equivalent to a _____.	1 3/4 gallon foam	12 gallon foam	15 pound CO2 fire extinguisher	35 pound CO2 fire extinguisher	



15	1415	D	According to Coast Guard regulations (46 CFR), A fire door that is held open by magnets may be found in the _____.	wheelhouse	galley	engineroom	stairway enclosure	
15	1416	A	When abandoning ship in an emergency situation, you should _____.	jump off feet first from the windward side	dive head first from the bridge	dive head first from the main deck	follow directly behind another person on the leeward side	
15	1417	D	Pollution Prevention Regulations (33 CFR) specify that the person in-charge of bunkering is responsible for the _____.	vessel draft	quantity of fuel received	quality of fuel received	possession of a copy of the facility operations manule or vessel transfer procedudres	
15	1418	A	The advantage of using a dry chemical fire extinguishing agent is _____.	its good stability and nontoxicity	permanent extinguishment regardless of the reignition sources	its excellent cooling ability	all of the above	
15	1419	D	The rate of expansion of heated fuel oil varies with the _____.	conductivity	viscosity	volume	specific gravity	
15	1420	A	If you reach shore in a liferaft, the first thing to do is _____.	drag the raft ashore and lash it down for a shelter	find some wood for a fire	get the provisions out of the raft	set the raft back out to sea so someone may spot it	
15	1421	D	Combustible material stored in a compartment adjacent to a compartment where there is a fire may be ignited. This ignition can occur by _____.	heat convection through the adjacent bulkheads	combustion gases carried through the ventilation system	direct convection of the heat emitted by the adjacent fire	heat radiated from the deck or bulkhead by the adjacent fire	
15	1422	C	A vessel has eight B-II rechargeable CO2 fire extinguishers. How many spare chargers must the vessel carry?	1	2	4	8	
15	1423	B	Quick cleaning strainers are installed in the fire main system at individual fire hydrants to _____.	prevent rust and foreign matter from entering the system piping	prevent rust and foreign matter from entering the hoses and nozzles	protect the fire pumps from becoming clogged with marine growth	filter out some of the salt in an effort to reduce pipeline scaling	
15	1424	C	What effect will transferring fuel oil from #1P double bottom to #3P double bottom have on the trim of a vessel?	The mean draft will increase.	The mean draft will decrease.	The forward draft will decrease.	The after draft will decrease.	
15	1425	D	Dry chemical extinguishing agents extinguish a fire by _____.	removing the fuel by absorbing the heated vapors	cooling and removing the oxygen from the fuel	smothering and removing the oxygen from the fuel	breaking up the molecular chain reaction	
15	1426	B	The lubber's line of a magnetic compass _____.	always shows true north	indicates the vessel's heading	is always parallel to the vessel's transom	is located on the compass card	
15	1427	D	As a vessel changes course to starboard, the compass card in a magnetic compass _____.	first turns to starboard then counterclockwise to port	also turns to starboard	turns counterclockwise to port	remains aligned with compass north	
15	1428	C	A large oil fire on the weather deck of a ship can be effectively fought using _____.	dry chemical	soda acid	foam	high velocity fog	
15	1429	C	The heading of a vessel is indicated by what part of the compass?	Card	Needle	Lubber's line	Gimbals	
15	1430	B	The greatest danger in cold temperatures, when at sea in an inflatable liferaft is _____.	asphyxiation due to keeping the canopy closed	hypothermia caused by the cold temperature	collapsing of the raft due to the cold temperature	starvation	
15	1431	B	The spreading of fire as a result of heat being carried through a vessel's ventilation system, is an example of heat transfer by _____.	conduction	convection	radiation	windage	
15	1432	D	Error may be introduced into a magnetic compass by _____.	making a structural change to the vessel	a short circuit near the compass	belt buckels	All of the above	

15	1433	B	The device shown in the illustration is used to _____.	produce both straight steam and fog patterns	prevent foreign matter from clogging hoses and nozzles	provide high velocity fog patterns	produce mechanical foam	See illustration number(s): SF-0010
15	1434	C	If your vessel is equipped with inflatable lifrafts, how should they be maintained?	Have your crew check them annually.	They do not need any maintenance.	Have them sent ashore to an approved maintenance facility.	Have them serviced by the shipyard.	
15	1435	B	Who should inspect and test an inflatable life raft?	The Chief Mate	An approved servicing facility	Shipyard personnel	A certified lifeboatman	
15	1437	D	Coast Guard approved buoyant work vests _____.	may be substituted for 10 percent of the required life preservers	should be stowed adjacent to rescue boats and emergency stations	may be used by boat crews and line handlers during rescue boats drills	should be used when carrying out duties near a weather deck's edge	
15	1438	B	Which of the following statements concerning immersion suits is correct?	Immersion suits should be worn while performing routine work on deck.	After purchasing, the suit should be stowed in the storage bag in which it was received.	During the annual maintenance, the front zipper should be lubricated using light machine oil or mineral oil.	Any tear or leak will render the suit unserviceable and it must be replaced.	
15	1439	D	If you hear the sound of a gas escaping from the liferaft just after it has inflated, you should _____.	quickly hunt for the hole before the raft deflates	check the sea anchor line for a tear if the seas are rough	check the painter line attachment for a tear caused by the initial opening	not panic as the relief valves allow excess pressure to escape	
15	1440	D	If the water level is rising in the bilge of a survival craft, you should first _____.	abandon the survival craft	check for cracks in the hull	shift all personnel to the stern	check the bilge drain plug	
15	1441	A	Generally, which of the following gases is used to inflate liferafts?	CO2	Oxygen	Hydrogen	Compressed air	
15	1442	B	The lubber's line of a magnetic compass indicates _____.	compass north	the direction of the vessel's head	magnetic north	a relative bearing taken with an azimuth circle	
15	1443	B	How are solid materials kept from fouling a fire hose nozzle?	Using a Cadum Chloride coating.	Use of inline system strainers.	Replacement of valve seats at each fire main station.	Periodic shutdown and backflush of fire main.	
15	1444	D	Which would influence a magnetic compass?	Electric wiring	Iron pipe	Radio	All of the above	
15	1445	A	As a vessel changes course to starboard, the compass card in a magnetic compass _____.	remains aligned with compass north	also turns to starboard	first turns to starboard then counterclockwise to port	turns counterclockwise to port	
15	1446	C	As a vessel changes course to starboard, the compass card in a magnetic compass _____.	first turns to starboard then counterclockwise	also turns to starboard	remains aligned with compass north	turns counterwise to port	
15	1447	C	A magnetic compass card is marked in how many degrees?	90	180	360	400	
15	1448	D	Which of the listed extinguishing agents could be used to fight a class "B" fire involving the duct work for the galley stove?	CO2	Dry chemical	Halon	All of the above	
15	1449	A	How many degrees are there on a compass card?	360°	380°	390°	420°	
15	1450	D	Which of the following statements is true concerning an inflatable liferaft?	The floor may be inflated for insulation from cold water.	Crew members can jump into the raft without damaging it.	The raft may be boarded before it is fully inflated.	All of the above.	
15	1451	D	Which of the gases listed is the poisonous gas most likely to be found in a closed compartment involved in a fire?	Nitrogen	Hydrogen	Carbon dioxide	Carbon monoxide	

15	1452	A	When a magnetic compass is not used for a prolonged period of time it should _____.	be shielded from direct sunlight	be locked into a constant heading	have any air bubbles replaced with nitrogen	have the compensating magnets removed	
15	1453	D	A vessel heading NNW is on a course of _____.	274.5°	292.0°	315.5°	337.5°	
15	1454	C	A vessel heading NW is on a course of _____.	274.5°	292.0°	315.5°	337.5°	
15	1455	A	A vessel heading SSW is on a course of _____.	202.5°	225.0°	247.5°	270.5°	
15	1456	B	A vessel heading SW is on a course of _____.	202.5°	225.0°	247.5°	270.5°	
15	1457	C	A vessel heading WSW is on a course of _____.	202.5°	225.0°	247.5°	271.0°	
15	1458	C	Which of the listed type of fires would the fire extinguisher, shown in the illustration, be suitable for extinguishing?	Mattress fire	Fire in an electronics console	Small oil fire on the engine room floor plates	Fire in an ullage opening	See illustration number(s): SF-0006
15	1459	C	A vessel heading SSE is on a course of _____.	112.5°	135.0°	157.5°	180.0°	
15	1460	C	The most important reason for taking anti-seasickness pills as soon as possible after entering a liferaft is to _____.	assist in sleeping	reduce appetite by decreasing nausea	prevent loss of body moisture by vomiting	prevent impaired judgement due to motion-induced deliriousness	
15	1461	B	A vessel heading SE is on a course of _____.	112.5°	135.0°	157.5°	180.0°	
15	1462	A	A vessel heading ESE is on a course of _____.	112.5°	135.0°	157.5°	180.0°	
15	1463	C	A vessel heading ENE is on a course of _____.	022.5°	045.0°	067.5°	090.0°	
15	1464	B	A vessel heading NE is on a course of _____.	022.5°	045.0°	067.5°	090.0°	
15	1465	A	A vessel heading NNE is on a course of _____.	022.5°	045.0°	067.5°	090.0°	
15	1466	B	On a rigid life raft which is equipped with all the required equipment you will NOT find a _____.	bailer	bilge pump	first aid kit	painter	
15	1467	A	Limit switches are located on the survival craft winch systems for OSVs to _____.	stop the winch just before the craft reaches its uppermost position	limit the amount of cable on the drum	limit the ascent rate	stop the winch in case the craft's weight exceeds load lift limit	
15	1468	D	When fighting a liquefied natural gas fire, you should _____.	use only carbon dioxide	use only dry chemical	extinguish the fire, then secure the source of gas	secure the source of gas, then extinguish the fire	
15	1469	C	The master or person-in-charge of an OSV shall insure that each deck from which rescue boats are launched is _____.	surfaced with a nonskid texture	roped off to prevent unnecessary access	kept clear of any obstructions that would interfere with launching	posted with a list of persons assigned to the lifeboat	
15	1470	B	One of the first actions to be taken by survivors when they have boarded an inflatable liferaft is to _____.	stream the sea anchor	take an anti-seasickness pill	open the pressure relief valve	drink at least one can of water	
15	1471	A	The sea painter on a rescue boat should be led _____.	forward and outside of all obstructions	forward and inside of all obstructions	up and down from the main deck	to the foremost point on the vessel	
15	1472	D	If help has not arrived in 10 to 12 hours after abandoning a vessel in a rescue boat, you should _____.	go in one direction until the fuel runs out	plot course for the nearest land	plot a course for the nearest sea lane	shut down the engines if installed, and set the sea anchor	
15	1474	B	A rigid lifesaving device designed to support survivors In The Water is a _____.	rigid life raft	life float	inflatable life raft	survival capsule	
15	1475	A	All personnel on board a vessel should be familiar with the rescue boat _____.	boarding and operating procedures	maintenance schedules	navigational systems	fuel consumption rates	
15	1477	B	When you hear three short blasts on the ship's whistle and the same signal on the general alarm bells, you _____.	are required to go to your liferaft	are dismissed from drills	should point to the man overboard	should start the fire pump	
15	1478	C	Fires resulting from escaping liquefied flammable gases are generally extinguished by _____.	cooling below the ignition point	cutting off the oxygen supply	stopping the flow of gas	interrupting the chemical chain reaction	

15	1479	B	While reading the muster list, you see that "three short blasts on the ship's whistle and the same signal on the general alarm bells" is the signal for _____.	abandon ship	dismissal from drills	fire and emergency	man overboard	
15	1480	D	Life jackets should be marked with the _____.	maximum weight allowed	stowage space assigned	vessel's home port	vessel's name	
15	1481	A	Which statement is TRUE concerning life jackets which are severely damaged?	They should be replaced.	They must be tested for buoyancy before being continued in use.	They can be repaired by a reliable seamstress.	They can be used for children.	
15	1482	A	The station bill shows each crew lifeboat station, their duties during abandonment, basic instructions, and _____.	all emergency signals	instructions for lowering the survival capsule	the time each weekly drill will be held	work schedule	
15	1483	B	In order to find out which liferaft you are assigned, you should look on the _____.	Certificate of Inspection	Station Bill	Ship's Articles	Fire Control Plan	
15	1484	B	Which is TRUE concerning immersion suits and their use?	Only a light layer of clothing may be worn underneath.	They provide sufficient floatation to do away with the necessity of wearing a life jacket.	They should be tight fitting.	A puncture in suit will not appreciably reduce its value.	
15	1485	C	An immersion suit must be equipped with a(n) _____.	air bottle for breathing	whistle and light	whistle, light, and reflective tape	whistle, light, and sea dye marker	
15	1486	B	The signal for a fire emergency on an OSV is _____.	a 30 second on 30 second off alternating signal	the continuous blast of the ships whistle for not less than 10 seconds supplimented by the continuous ringing of the general alarm bells for not less than 10 seconds	an intermittent ringing of the general alarm for not less than ten seconds	announced over the PA system	
15	1487	D	Which statement about immersion suits is TRUE?	All models will automatically turn an unconscious peerson face-up in the water.	The immersion suit seals in body heat and provides protection against hypothermia indefinetely.	The suit is flameproof and provides protection to the wearer while swimming through burning oil.	The suits provid for limited body movement such as walking, climbing a ladder and picking up small objects like a pencil.	
15	1488	D	A class "B" fire develops on the weatherdeck amidships of moored tank vessel. The fire party should man the _____.	leeward monitor and direct the foam onto a vertical surface while applying a solid stream of water to wash residual fuel over the side away from the pier	leeward monitor and direct the foam onto a vertical surface while applying water fog to protect the monitor operator	windward monitor and direct the foam onto a vertical surface while applying water fog to the fire	windward monitor and direct the foam onto a vertical surface while standing by with a charged hose to protect the monitor operator with water fog if needed	
15	1489	A	Which statement about immersion suits is TRUE?	Some models will automaticlly turn an unconscious person face-up in the water.	The immersion suit seals in body heat and provides protection against hypothermia for weeks.	The suit will still be serviceable after a brief (2-6 minutes) exposure to flame and burning.	The wearer of the suit is not restricted in body movement and the suit may be donned well in advance of abandoning ship.	

15	1490	B	Which statement about immersion suits is TRUE?	All models will automatically turn an unconscious person face up in the water.	The immersion suit reduces the rate of body cooling and increases the survival time in cold water to hours or days.	The suit is flameproof and provides protection to a wearer swimming in burning oil,	The suit provides a full range of body movement and is suitable for routine wear on deck.	
15	1491	C	Which statement about immersion suits is TRUE?	The suit is flameproof and provides protection to the wearer while swimming through burning oil.	The immersion suit seals in body heat and provides protection against hypothermia for weeks.	Some models will not automatically turn an unconscious person face up in the water.	the suit should be donned just after the survival craft are launched.	
15	1492	D	Coast Guard Regulations 46 CFR, stipulate that in addition to emergency signals, muster lists must specify_____.	actions to be taken by persons on board when each signal is sounded	the order to abandon the vessel	the duties assigned to different members of the crew	all of the above	
15	1493	B	Which of the following represents the emergency signal for fire aboard ship?	More than six short blasts and one long blast on the whistle.	Continuous blast of the ship's whistle for a period of not less than 10 seconds supplemented by the same signal on the general alarm.	Three short blasts of the whistle supplemented by the same signal on the general alarm.	More than six short blasts and one long blast on the whistle supplemented by the same signal on the general alarm.	
15	1494	A	Which of the listed precautions should be taken when testing a line throwing gun?	Never test the rocket with the service line attached.	Fire it at an angle of approximately 90 degrees to the horizon.	Wear asbestos gloves.	All of the above	
15	1495	A	With no alternative but to jump from an OSV, the correct posture should include _____.	holding down the lifejacket against the chest with one arm crossing the other, covering the mouth and nose with a hand, and feet together and ankles crossed	knees bent and held close to the body with both arms around legs	body straight and arms tightly at the sides for feet first entry into the water	both hands holding the lifejacket below the chin with knees bent and legs crossed	
15	1496	D	When you are firing a pyrotechnic distress signal, it should be aimed _____.	straight overhead	at the vessel whose attention you want to attract	into the wind	at about 60 degrees above the horizon	
15	1497	A	If your life raft is to leeward of a fire on the water, you should first _____.	cut the line to the sea anchor	paddle away from the fire	splash water over the life raft to cool it	get out of the raft and swim to safety	
15	1498	C	If a fire ignites in the engine room as a result of a high pressure fuel oil leak, you should FIRST _____.	secure the ventilation	find a soda acid extinguisher	shut off the fuel oil supply	secure the generator	
15	1499	D	If you have to jump into the water when abandoning ship, your legs should be _____.	spread apart as far as possible	held as tightly against your chest as possible	in a kneeling position	extended straight down and crossed at the ankles	
15	1500	C	When abandoning ship, after launching the motor lifeboat you should _____.	plot course for nearest land	go only with the direction of the sea	stay in the immediate area	go one direction until fuel runs out	
15	1501	D	A fire can be extinguished by removing _____.	the heat	the fuel	the oxygen	any of the above	
15	1502	D	To turn over a liferaft that is floating upside down, you should pull on the _____.	canopy	manropes	sea painter	righting lines	

15	1503	D	Which of the following conditions are true concerning shipboard extinguishing systems?	Carbon dioxide and Halon are both effective fixed systems that protect against "class C" fires.	Flammable gas fires are not extinguished by fixed systems; controlled burning is recommended until the fuel source can be shut off.	No fixed extinguishing system is approved for use against "class D" fires involving combustible metals.	All of the above.	
15	1504	A	After having thrown the liferaft and stowage container into the water, the liferaft is inflated by _____.	pulling on the painter line	forcing open the container which operates the CO2	hitting the hydrostatic release	using the hand pump provided	
15	1505	D	Each OSV must carry _____.	one category 1 406 MHz satellite EPIRB	at least one lifebuoy on each side of the vessel fitted with a buoyant lifeline	at least 12 rocket parachute flares	all of the above	
15	1506	B	Which of the following steps should normally be taken first by those who have boarded a lifeboat in an emergency situation?	Ration food and water supplies	Search for survivors	Determine position and closest point of land	Check pyrotechnic supplies	
15	1508	C	If a fire occurs in the fireroom as a result of fuel oil leaking from the boiler fuel oil manifold, the FIRST action taken should be to _____.	pressurize the fire main	activate the CO2 system	secure the fuel supply	sound the general alarm	
15	1509	A	When collecting condensation for drinking water, _____.	a sponge used to mop up and store condensation must be kept salt free	only condensation on the bottom of the canopy should be collected	it should be strained through a finely woven cloth	chlorine tablets should be used to make it drinkable	
15	1510	A	If you are forced to abandon ship in a lifeboat, you should _____.	remain in the immediate vicinity	head for the nearest land	head for the closest sea-lanes	vote on what to do, so all hands will have a part in the decision	
15	1511	A	The four basic components of a fire are fuel, heat, oxygen and a chain reaction. Which of the following statements best describes what must be eliminated to extinguish a fire?	Any one component can be eliminated to extinguish a fire.	Any two components must be eliminated to properly extinguish a fire.	Any three components must be eliminated to properly extinguish a fire.	All four components must be eliminated to extinguish any fire.	
15	1512	B	If you find an inflatable life raft with the steel bands still in place around its case, you should _____.	double wrap with line	leave the bands in place	tell the Mate	remove the bands yourself	
15	1513	B	Which of the following statements holds true for both CO2 and Halon 1301 fixed extinguishing systems?	A cylinder is considered satisfactory if its weight is within 10% of the stamped full weight of the charge.	If a protected space is ventilated mechanically, the ventilation system must be automatically shutdown by the release of the agent.	To avoid confusion during an emergency situation, there should be only one action necessary (such as a single pull box) to activate the system.	All of the above.	
15	1514	C	In each inflatable rescue boat, what piece of equipment is provided to make quick, emergency, temporary repairs to a large hole in a raft?	No equipment is provided.	Glue and rubber patches.	Several various-sized sealing clips.	Self-adhesive rubberized canvas patches.	
15	1515	A	Puncture leaks in the lower tubes or bottom of an inflatable liferaft should FIRST be stopped by using _____.	sealing clamps	repair tape	a tube patch	sail twine and vulcanizing kit	
15	1516	A	Which statement concerning the collection of fresh water is FALSE?	Fresh water may be obtained from fish.	Liferaft covers or canopies should be washed with rain before drinking water is collected.	Fresh water may be collected from condensation inside the liferaft.	Freshwater can be collected from rainwater.	
15	1518	D	The FIRST step to take in fighting an engine room fire resulting from a ruptured fuel oil service line, is to _____.	evacuate all engine room personnel	fight the fire with hand portable extinguishers	activate the main CO2 bank	stop the flow of leaking fuel oil	

15	1519	D	Petroleum vapors are dangerous _____.	only if the source of the vapor is above its flash point	only if the vapor is between the upper and lower explosive limit	only if the oxygen concentration is below 16 percent	at all times due to their toxicity	
15	1520	D	If help has not arrived in 10-12 hours after abandoning ship in a lifeboat, you should _____.	go in one direction until the fuel runs out	plot course for the nearest land	plot a course for the nearest sea lane	shut down the engines and set the sea anchor	
15	1521	B	The four basic components of a fire are chain reaction, heat, fuel, and _____.	carbon monoxide	oxygen	carbon dioxide	any gaseous substance	
15	1522	D	Your survival craft is rolling in heavy seas. You can reduce the possibility of capsizing by _____.	shifting the rudder constantly	moving all personnel forward and low	moving all personnel aft	rigging a sea anchor	
15	1523	B	A sprinkler head activated by the melting of a fusible link is installed on a ship. Which of the following statements is true regarding these devices?	Sprinkler heads installed in the living spaces would have a higher melting point fusible link than those installed in the galley.	Sprinkler heads installed in the galley would have a higher melting point fusible link than those installed in the living spaces.	Sprinkler heads installed in the galley and living spaces would have the same fusible link melting point.	None of the above; sprinkler heads with fusible links are prohibited aboard U.S. flag vessels	
15	1524	C	A feature of an inflatable raft which helps keep people stationary in rough weather is _____.	lashings on the floor of the raft for the passenger's feet	straps from the overhead	lifelines on the inside of the raft	ridges in the floor of the raft	
15	1525	D	When applying chest compressions on an adult victim during CPR, the sternum should be depressed about _____.	1/2 inch or less	1/2 to 1 inch	1 to 1 1/2 inches	1 1/2 to 2 inches	
15	1526	D	You have abandoned ship and after two days in a liferaft you can see an aircraft near the horizon apparently carrying out a search pattern. You should _____.	switch the EPIRB to the homing signal mode	use the voice transmission capability of the EPIRB to guide the aircraft to your raft	turn on the strobe light on the top of the EPIRB	use visual distress signals in conjunction with the EPIRB	
15	1527	A	Which of the items in the lifeboat equipment listed would be the most suitable for night signaling to a ship on the horizon?	A red parachute flare	A red handheld flare	A flashlight	A lantern	
15	1528	B	If a fire occurs in the boiler room as a result of a leaking fuel line, you should FIRST _____.	notify the engineer on watch	isolate and secure the piping	throw sand on the fire	extinguish the fire using a combination nozzle with applicator	
15	1529	A	When administering chest compression during CPR, at what part of the victim's body should the pressure be applied?	Lower half of the sternum	Tip of the sternum	Top half of the sternum	Left chest over the heart	
15	1530	D	Engines for lifeboats are required to have sufficient fuel to operate for how many hours?	6 hours	12 hours	18 hours	24 hours	
15	1531	B	The three basic elements necessary for any fire are _____.	heat, gas, and flames	fuel, heat, and oxygen	heat, nitrogen, and fuel	fuel oil, nitrogen, and oxygen	
15	1532	A	Which of the following conditions represents the appropriate time for setting off distress flares and rockets?	Only when there is a chance of them being seen by rescue vessels	At half-hour intervals	At one hour intervals	Immediately upon abandoning the vessel	
15	1533	A	Changing rescuers while carrying out artificial respiration should be done _____.	without losing the rhythm of respiration	only with the help of two other people	by not stopping the respiration for more than 5 minutes	at ten minute intervals	
15	1534	B	The most essential element in the administration of CPR is _____.	to have the proper equipment for the process	the speed of treatment	the administration of oxygen	the treatment for traumatic shock	

15	1535	D	You are attempting to administer CPR to a victim. While blowing into the victim's mouth, it is apparent that no air is getting to the lungs. Which of the following actions should you take?	Blow harder to force the air past the tongue.	Raise the victim's head higher than his feet.	Press on the victim's lungs so that air pressure will blow out any obstruction.	Re-tip the head and try again.	
15	1536	D	You are in a survival craft, broadcasting a distress message. What information would be essential to your rescuers?	The nature of the distress.	The time of day.	Your radio call sign.	Your position by latitude and longitude.	
15	1537	A	What should you do with your emergency position indicating radio beacon if you are in a liferaft during storm conditions?	Bring it inside the liferaft and leave it on.	Bring it inside the liferaft and turn it off until the storm passes.	Leave it outside the liferaft and leave it on.	Leave it outside the liferaft but turn it off.	
15	1538	C	When fighting a spreading fire resulting from a broken fuel line, you should FIRST _____.	look for a CO2 extinguisher	use a soda acid extinguisher	shut off the fuel supply	smother the fire with rags	
15	1539	A	Before CPR is started on the victim, you should _____.	establish an open airway	treat any bleeding wounds	insure the victim is conscious	make the victim comfortable	
15	1540	C	When lowering lifeboats as the vessel is pitching in heavy seas, a good practice is to rig frapping lines _____.	on only the forward falls	on only the after falls	fore and aft with a lead of about 45, to the boat	from the falls to the tricing gear	
15	1541	D	A fire cannot exist if which of the listed elements is removed from the fire?	Oxygen	Fuel	Heat	All of the above.	
15	1542	B	When administering artificial respiration, it is of the utmost importance to _____.	use the mouth-to mouth method	clear airways	use rhythmic pressure method	know all approved methods	
15	1543	A	Hand holds or straps on the underside of an inflatable liferaft are provided _____.	to right the raft if it capsizes	to carry the raft around on deck	for crewman to hang on to	to hang the raft for drying	
15	1544	B	The knife on an inflatable liferaft will always be located _____.	in one of the equipment bags	in a special pocket on the exterior of the canopy	on a cord hanging from the canopy	in a pocket on the first aid kit	
15	1545	A	Generally, what is used to inflate life rafts?	non-toxic inert gas	Oxygen	Hydrogen	Carbon monoxide	
15	1546	B	When a sea anchor for survival craft is properly rigged, it will _____.	completely stop the survival craft from drifting	help to prevent broaching	prevent the survival craft from pitching	prevent the survival craft from rolling	
15	1547	A	Using a sea anchor will _____.	reduce your drift	keep the life raft from turing	aid in recovering the life raft	increase your visibilty	See illustration number(s): SF-0042
15	1548	B	A sea anchor is _____.	a heavy metal anchor with an extra long line used to anchor in deep water	a cone shaped bag used to slow down the wind drift effect	a padeye to which the sea anchor is made fast	made of wood, if it is an approved type	
15	1549	D	Which of the following hazards is associated with the handling of petroleum products?	Fire	Explosion	Asphyxiation	All of the above	
15	1550	C	When launching a lifeboat, frapping lines should be rigged _____.	before the gripes are released	before the boat is moved from the davits	at the embarkation deck	after the boat is in the water	
15	1551	B	For the purpose of training and drills, rescue boats on an OSV should be launched if reasonable and practicable _____.	once a week	once a month	once a year	twice a year	
15	1552	D	An emergency sea anchor may be constructed by using _____.	a boat bucket	an air tank filled with water	an oar and canvas weighted down	All of the above	See illustration number(s): SF-0042
15	1554	A	The rescue boat on an OSV is not required to carry a _____.	fishing kit	searchlight	sea anchor	radar relector	
15	1555	C	If the hydrostic release mechanism for an inflatable liferaft is not periodically serviced and becomes inopertive, it will NOT _____.	set the water lights on immersion	release the dye-maker for the liferaft	free the liferaft from a sinking vessel	break the seal on the carbon dioxide cylinder	
15	1556	A	What is the purpose of the hydrostatic release on an inflatable lifraft?	To release the raft from the cradle automatically as the ship sinks.	To inflate the raft automataicly.	To test the rafts hydrostatically.	None of the above.	



15	1557	D	After launching, an inflatable raft should be kept dry inside by _____.	opening the automatic drain plugs	draining the water pockets	using the electric bilge pump	using the bailers and cellulose	
15	1558	C	When combating a deck fire due to a leaking cargo line, you should FIRST _____.	blanket the cargo spill with foam	apply CO2 on the burning fuel at its source	stop the transfer of cargo	prevent the spread of fire with a foam dam	
15	1559	B	The highest concentration of a harmful substance to which a person may be exposed without danger to health, is termed the _____.	odor threshold	threshold limit value	vapor pressure	tolerance point	
15	1560	B	A frapping line, shown in the illustration, is indicated by number _____.	1	2	3	4	See illustration number(s): SF-0029
15	1562	D	An inflatable liferaft can be manually released from its cradle by _____.	cutting the straps that enclose the container	removing the rubber sealing strip from the container	loosing the turnbuckle on the securing strap	pushing the button on the hydrostatic release	
15	1563	D	The normal equipment of every rescue boat shall include _____.	buoyant oars	one 50 meter line	one first aid kit	all of the above	
15	1564	A	To release the davit cable of a davit launched liferaft, you must _____.	pull the release lanyard	pull the hydraulic release	push the release button	pull on the ratchet handle	
15	1566	A	Handholds or straps on the underside of an inflatable liferaft are provided _____.	to right the raft if it capsizes	to carry the raft around on deck	for crewmen to hang on to	to hang the raft for drying	
15	1567	D	The air spaces in the floor of an inflatable liferaft will provide protection against _____.	asphyxiation from CO2	loss of air in the sides of the raft	rough seas	cold water temperatures	
15	1568	C	The rekindling of a fire can occur when a fire, extinguished by smothering, is resupplied with oxygen. Which of the fire extinguishing agents listed, when properly used on an oil fire, will prevent rekindling?	Low velocity fog	High velocity fog	Chemical foam	Dry chemical	
15	1569	D	Breathing petroleum vapors is hazardous and may cause _____.	temporary blindness	permanent deafness	severe internal bleeding	unconsciousness and death	
15	1570	D	When making entries in the Oil Record Book, all quantities should be _____.	recorded as cubic meters with a conversion to barrels	verified by the Chief Engineer	recorded directly from the oil discharge monitor	consistently recorded through the Oil Record Book in one specified unit (gallons, barrels, cubic meters)	
15	1571	A	The sea painter of a lifeboat should be led _____.	forward and outside of all obstructions	forward and inside of all obstructions	up and down from the main deck	to the foremost point on the ship	
15	1572	A	The inside light in an inflatable liferaft is turned on _____.	automatically as the liferaft inflates	with a switch near the boarding handle	at night because the light has a photosensitive switch	by screwing the bulb in after the raft is inflated	
15	1573	B	On most makes of inflatable liferafts, the batteries to operate the light on the inside of rafts can be made to last longer by _____.	unscrewing the bulb during daylight	opening the switch for the light	taking no action as there is no way of preserving power	taking no action as they shut off automatically in daylight	
15	1574	A	The normal equipment of every rescue boat shall include one _____.	compass	one 50 foot line	one can opener	all of the above	
15	1575	D	The lights on the outside of the canopy of an inflatable liferaft operate _____.	by turning the globe clockwise	by a switch at each light	by a light sensor	automatically when the raft is inflated	
15	1576	B	Water pockets on the under side of an inflatable liferaft are for _____.	catching rain water	stability	easy drainage	maneuverability	
15	1577	C	The rescuer can best provide an airtight seal during mouth-to-mouth ventilation by pinching the victim's nostrils and _____.	cupping a hand around the patient's mouth	keeping the head elevated	applying his mouth tightly over the victim's mouth	holding the jaw down firmly	
15	1578	A	An oxygen indicator will detect _____.	the amount of oxygen in a space	the presence of harmful amounts of carbon monoxide	concentrations of explosive gas	all of the above	

15	1579	D	The volatility of a liquid is the tendency of a liquid to _____.	ignite	explode	asphyxiate	vaporize	
15	1580	B	Lines passed around the falls to hold the boat into the vessel while boarding passengers are called _____.	lifelines	frapping lines	tricing lines	tripping lines	
15	1581	A	What is placed on the underside of an inflatable liferaft to help prevent it from being skidded by the wind or overturned?	Ballast bags	A keel	Strikes	Sea anchor	
15	1582	D	A safety feature provided on all inflatable liferafts is _____.	overhead safety straps	built in seats	internal releasing hooks	the use of water stabilizing pockets	
15	1583	B	The jackknife stored on an inflatable liferaft will always be located _____.	in one of the equipment bags	in a special pocket near the forward entrance	on a cord hanging from the canopy	in a pocket on the first aid kit	
15	1586	D	A hydrostatic release mechanism for a liferaft _____.	must be wet before it will release	should be kept in a watertight cover except in an emergency	will inflate the raft in its cradle if operated manually	must be submerged to a certain depth to release automatically	
15	1587	A	What is the purpose of the liferaft hydrostatic release?	To release raft from the cradle automatically as the ship sinks	To inflate the raft automatically	To test rafts hydrostatically	None of the above	
15	1588	C	When combating an oil fire in a deep tank aboard ship, water fog can be used to extinguish the fire and _____.	contain the burning liquid	prevent any deformation of the tank top	cool the surrounding metal	eliminate flammable combustion gases	
15	1589	B	Which of the listed tanks presents the greatest potential for an explosion?	A full tank of diesel oil	A partially filled tank of diesel oil	A full tank of lubricating oil	A partially filled tank of hydraulic oil	
15	1590	A	Frapping lines are fitted to lifeboat davits to _____.	reduce the swinging of the lifeboat as it is being lowered from the embarkation level	secure the lifeboat in the davits when in the stowed position	hold it to the ship's side until the tricing lines are passed	be used as a safety line in an emergency	
15	1591	B	One of the first actions to be taken by survivors when they have boarded an inflatable liferaft is to _____.	break out food rations	take anti-seasickness pill	open the pressure relief valve	drink at least one can of water	
15	1592	D	Inflatable liferafts are provided with _____.	a portable radio	an oil lantern	canned milk	a towing bridle	
15	1593	D	Inflatable liferafts are provided with a _____.	jackknife	towing connection	lifeline	All of the above	
15	1594	B	Inflatable liferafts are provided with _____.	a pistol	a towing connection	a portable radio	canned milk	
15	1595	D	If you hear the sound of a gas escaping from the liferaft just after it has inflated, you should _____.	quickly hunt for the hole before the raft deflates	check the sea anchor line for a tear if the seas are rough	check the painter line attachment for a tear caused by the initial opening	not panic as the relief valves allow excess pressure to escape	
15	1596	C	When making a permanent repair to an inflatable liferaft using a repair kit, how long after the repair is made should you hold off "topping up" the lost air?	You do not have to hold off	12 hours	24 hours	2 hours	
15	1598	A	When launching an inflatable liferaft, you should make sure that the operating cord is _____.	fastened to some substantial part of the vessel	not fastened to anything	secured to the hydrostatic release	fastened to the raft container	
15	1599	A	An inflatable liferaft is thrown into the water from a sinking vessel. Which of the following actions occurs automatically after the painter trips the CO2 bottles to inflate the raft?	The sea anchor is deployed.	The floor inflates.	If upside down, the craft will right itself.	The painter detaches from the raft.	

15	1600	D	Frapping lines _____.	secure the lifeboat in the davits when in the stowed position	bring the lifeboat close alongside the rail in the embarkation position	give the occupants a safety line when the boat is being lowered from the embarkation level	reduce the swinging of the lifeboat at the embarkation level	
15	1601	D	You should deploy the sea anchor from a liferaft to _____.	keep the liferaft from capsizing	navigate against the current	keep personnel from getting seasick	stay in the general location	
15	1602	C	An inflatable liferaft can be launched by _____.	the float-free method only	kicking the hydrostatic release	throwing the entire container overboard, then pulling on the operating cord to inflate the raft	removing the securing straps	
15	1603	C	The sea painter of an inflatable liferaft should be _____.	free running on deck	faked out next to the case	secured to a permanent object on deck via a weak link	stowed near the raft	
15	1604	A	Vessel bilge keels are designed primarily to _____.	assist in reducing rolling	improve vessel steering response	reinforce the bilge knuckle in way of double bottom tanks	provide strengthening of the bilge plating through the mid-body	
15	1605	B	Which of the following must be carried out in order to launch and inflate an inflatable liferaft?	Pull on the hydrostatic release, pull on the sea painter.	Push on the hydrostatic release, pull on the sea painter.	Push on the hydrostatic release, push on the sea painter.	Pull on the hydrostatic release, push on the sea painter.	
15	1606	B	Which of the following emergency signals are used to report for boat stations or boat drills?	Three short blasts of the whistle along with the same signal on the general alarm bells.	More than six short blasts and one long blast of the whistle, along with the same signal on the general alarm bells.	Steady rapid ringing of the ship's bell for at least 10 seconds, along with the same signal on the general alarm bells.	Less than five short blasts and one long blast of the whistle, along with the same signal on the general alarm bells.	
15	1607	B	Which of the following must be carried out in order to manually launch an inflatable liferaft not designed for float-free operation?	It will be easily launched by simply breaking the weak link.	Depress the hydrostatic release button.	It is easily launched by cutting the container securing straps.	It is only necessary to attach the weak link to the vessel.	
15	1608	B	Which of the following is the correct procedure to follow when launching an inflatable liferaft by hand from an OSV?	Connect the stainless steel link (float free link) to the vessel.	Pull the line (painter) from the container and make it fast to the cleat provided.	Open the canopy relief valves.	Remove the raft from the container to permit complete inflation.	
15	1609	C	An inflatable liferaft is floating in its container, attached to the ship by its painter, as the ship is sinking rapidly. Which of the actions listed should be taken with respect to the liferaft container?	Cut the painter line so it will not pull the life raft container down.	Swim away from the container so you will not be in danger as it goes down.	Take no action as the pull on the painter will cause the liferaft to inflate and open the container.	Manually open the container and inflate the liferaft with the hand pump.	
15	1610	B	On a vessel with lifeboats on both sides, the No. 2 lifeboat would be located _____.	forward of lifeboat No. 4 on the starboard side	forward of lifeboat No. 4 on the port side	aft of lifeboat No. 1 on the starboard side	all of the above	
15	1611	B	Which of the following conditions is true concerning a flammable liquid with a concentration above the upper explosive limit?	The mixture is too lean to burn.	The mixture is too rich to burn.	The vapor is about to explode.	Conditions are perfect for combustion.	
15	1612	A	After a liferaft is launched, the operating cord _____.	serves as a sea painter	detaches automatically	is used to rig the boarding ladder	is cut immediately as it is of no further use	
15	1613	A	After having thrown the liferaft and stowage container into the water, the liferaft is inflated by _____.	pull on the painter line	forcing open the container which operates the CO2	hitting the hydrostatic release	using the hand pump provided	
15	1614	B	The factor contributing to the greatest effect on the ship's period of roll is the _____.	free surface effect	vertical weight distribution	virtual rise in the center of gravity	moment to trim 1 inch (MT1)	

15	1615	C	The most important thing to remember when launching an inflatable liferaft by hand is to _____.	open the CO2 inflation valve	open the raft container	ensure that the operating cord is secured to the vessel	inflate the raft on the vessel, then lower it over the side	
15	1616	D	When more than six short blasts and one long blast of the ship's whistle, accompanied by the same signal on the general alarm bell is sounded, the signal is for _____.	fire and emergency	boat recall	man overboard	boat stations (abandon ship)	
15	1617	D	To launch a liferaft by hand, you should _____.	cut the casing bands, throw the liferaft over the side and it will inflate	detach the operating cord, throw the raft over the side and it will inflate	cut the casing bands, throw the raft over the side and pull the operating cord	throw the liferaft over the side and pull the operating cord	
15	1618	A	In fighting a fire in a fuel tank, the FIRST action you should attempt is to _____.	secure all sources of fresh air to the tank	begin transferring the fuel to other tanks	top off the tank to force out all vapors	station someone at the fixed CO2 release controls	
15	1619	C	The instructions for launching lifeboats/liferafts on must be approved by the _____.	lease operator	Minerals Management Service	Coast Guard	person-in-charge of the unit	
15	1620	C	The No. 3 lifeboat would be _____.	the forward boat on the starboard side	behind boat No. 1 on the port side	behind boat No. 1 on the starboard side	behind boat No. 2 on the port side	
15	1622	D	In order to retrieve an inflatable liferaft and place it on deck, you should heave on the _____.	lifelines	righting strap	sea anchor	towing bridle	
15	1623	C	An inflatable liferaft should be lifted back aboard the ship by using _____.	the single hook at the top of the raft	two lines passed under the raft	the towing bridle	All of the above	
15	1624	A	Generally, when lifting an inflatable liferaft back aboard ship, you would use the _____.	towing bridle	main weather cover	external lifelines	righting strap	
15	1625	D	On an OSV, when may a work vest be substituted for a required life jacket?	To replace a damaged life jacket.	For use during fire drills.	For use during boat drills.	At no time.	
15	1626	B	Seven short blasts and one long blast of the ship's whistle and the same signal on the general alarm bell is sounded, this signal indicates _____.	fire or emergency	boat stations (abandon ship)	man overboard	dismissal from drills	
15	1627	B	Which of the following statements is TRUE concerning lifejackets?	Buoyant vests may be substituted for lifejackets.	Lifejackets are designed to turn an unconscious person's face clear of the water.	Lifejackets must always be worn with the same side facing outwards to float properly.	Lightly stained or faded lifejackets will fail in the water and should not be used.	
15	1628	B	To extinguish a fire in an unruptured cargo tank, you should FIRST _____.	cool nearby decks, bulkheads and, equipment with high velocity fog	shut off the air supply by closing tank tops, ullage plugs, P.V. valves, and other openings	activate the fixed CO2 system	activate the portable CO2 system	
15	1629	A	Each buoyant work vest on an OSV must be _____.	Coast Guard approved	marked with the name of the unit	equipped with a waterlight	all of the above	
15	1630	A	The No. 2 lifeboat on a tanker would be found _____.	forward port side	forward starboard side	aft of No. 1 lifeboat port side	aft of No. 1 lifeboat starboard side	
15	1631	C	When transferring survivors from a survival craft to a rescue vessel, personnel onboard the craft should _____.	remove their lifejackets to make it easier to climb onboard the rescue vessel	climb on top of the survival craft while waiting for their turn to transfer to the rescue vessel	remain seated inside the survival craft and make the transfer one person at a time	enter the water and swim over to the rescue vessel	

15	1632	C	Which of the following statements concerning immersion suits is correct?	Immersion suits should be worn during routine work on deck to provide maximum protection.	After purchasing, the suit should be removed from its storage bag and hung on a hanger where it will be readily accessible.	During the annual maintenance, the front zipper should be lubricated with paraffin or beeswax.	Small leaks or tears may be repaired using the repair kit packed with the suit.	
15	1633	A	The zipper of an immersion suit should be lubricated with _____.	paraffin	oil	graphite	vegetable oil	
15	1634	C	You are testing the external inflation bladder on an immersion suit and find it has a very slow leak. Which of the actions listed should be taken?	Replace the suit.	Replace the inflation bladder.	Contact the manufacturer for repair instruction.	Some leakage should be expected and a topping off tube is provided; no other action is necessary.	
15	1635	D	The external floatation bladder of an immersion suit should be inflated _____.	only after two hours in the water	only after four hours in the water	before entry into the water	upon enter into the water	
15	1636	B	The signal for abandon ship is _____.	three short blasts on the whistle or three rings on the general alarm	more than six short blasts and one long blast on the whistle and the same signal on the general alarm	rapid ringing of the ship's bell and general alarm for at least 10 seconds	four long blasts on the whistle and the same on the general alarm	
15	1637	C	How is the external flotation bladder of an immersion suit inflated?	It is inflated by a small CO2 bottle that is automatically tripped when the front zipper is at the top of zipper track.	It is inflated by a small CO2 bottle that is manually tripped.	It is inflated by blowing through an inflation tube.	It inflates by sea water bleeding into the flotation bladder and reacting with a chemical.	
15	1638	A	The FIRST course of action in fighting a fire in a cargo or fuel oil tank is to _____.	secure all openings to the tank	discharge an initial charge of CO2 with a hand portable extinguisher	direct a fire hose into the tank and energize the fire main	spray the tank boundaries with a fire hose to promote cooling	
15	1639	B	The external flotation bladder on an immersion suit should be inflated _____.	before you enter the water	after you enter the water	after one hour in the water	after you notice that your suit is losing buoyancy	
15	1640	B	The No. 1 lifeboat on a tanker would be found _____.	on the port side	on the starboard side	aft of No. 1 lifeboat on the port side	aft of No. 1 lifeboat on the starboard side	
15	1641	C	An immersion suit should be equipped with a/an _____.	air bottle for breathing	whistle and handheld flare	whistle, strobe light, and reflective tape	whistle, handheld flare, and sea dye marker	
15	1642	A	The canopy of your liferaft should _____.	go into place as the raft is inflated	be put up after everyone is aboard	be put up only in severe weather	be used as a sail if the wind is blowing	
15	1643	D	If you see an individual fall overboard, you should _____.	throw them a life ring	hail "Man overboard"	pass the word to the bridge	all of the above	
15	1644	B	A person who observes an individual fall overboard from an OSV should _____.	immediately jump into the water to assist the individual	call for help and keep the individual in sight	run to the radio room to send an emergency message	go to the control room for the distress flares	
15	1645	A	Onboard an OSV, the key to the most rapid and effective response to a man overboard situation is _____.	well-conducted drills	a dedicated crew	good equipment	good communication	
15	1646	A	Using a sea anchor with the survival craft will _____.	reduce your drift rate	keep the survival craft from turning over	aid in recovering the survival craft	increase your visibility	
15	1647	A	While retrieving the survival craft, the engine should be stopped _____.	when the craft clears the water	when the cable has been attached	on approach to the platform	at the embarkation	

15	1648	B	When retrieving the survival craft, the winch operator should stop the winch and check _____.	that all personnel are seated in the craft	that the cable has not jumped any grooves on the drum	which way the wind is blowing	the hydraulic fluid level before lifting	
15	1649	B	After being launched from an OSV, a totally enclosed survival craft which has been afloat over a long period of time, requires _____.	frequent opening of hatches to permit entry of fresh air	regular checks of bilge levels	use of ear plugs to dampen engine noise	frequent flushing of the water spray system with fresh water	
15	1650	B	Which of the lifeboat parts listed must be painted bright red?	Hatches	Releasing gear	Hooks	Compass	
15	1651	D	If water is rising in the bilge of a survival craft, you should first _____.	abandon the survival craft	check for cracks in the hull	shift all personnel to the stern	check the bilge drain plug	
15	1652	D	If the water level is rising in the bilge of a survival craft, you should first _____.	increase the speed of the survival craft	shift all personnel to the bow	shift all personnel to the stern	check the bilge drain plug	
15	1653	B	The rescue boat on an OSV shall carry a tow line strong enough to tow the vessel's largest loaded liferaft at a speed of at least _____.	one knot	two knots	five knots	ten knots	
15	1654	C	The instructions for the launching procedurs of controls rescue boats and liferafts on an OSV must be approved by the _____.	lease operator	Minerals Management Service	Coast Guard	person-in-charge of the unit	
15	1655	C	If someone suffers a heart attack and has ceased breathing, you should _____.	immediatly give a stimulant, by force if necessary	make the victim comfortable in a bunk	immediatly start CPR	administer oxygen	
15	1656	C	A person has fallen overboard and is being picked up with a rescue boat. If the person appears in danger of drowning, the rescue boat should be maneuvered to make _____.	an approach from leeward	an approach from windward	the most direct approach	an approach across the wind	
15	1658	B	Which of the actions listed should be taken FIRST to control an oil fire in a fuel oil tank?	Commence draining that tank as quickly as possible.	Seal off all vents to that tank.	Activate the CO2 system to that tank.	Shut off the steam heating coils.	
15	1659	D	A person suffering from a heart attack may show which of the following symptoms?	Shortness of breath	Pain in the left arm	Nausea	All of the above	
15	1660	A	The tops of the thwarts, side benches, and the footings of a lifeboat are painted which of the following colors?	International orange	Yellow	White	Red	
15	1661	A	To determine whether or not an adult victim has a pulse, the rescuer should check for the pulse at the _____.	carotid artery in the neck	femoral artery in the groin	brachial artery in the arm	radial artery in the wrist	
15	1662	C	When two people are administering CPR to a victim, how many times per minute should the chest be compressed?	15	30	60	80	
15	1663	B	The necessity for administering artificial respiration may be recognized by the victim's _____.	vomiting	blue color and lack of breathing	irregular breathing	unconscious condition	
15	1664	D	Artificial respiration may be necessary in cases of _____.	drowning	electrocution	poisoning	All of the above	
15	1665	A	You are picking up a person who has fallen overboard. A rescue boat should be maneuvered to normally approach the victim with the _____.	victim to leeward	victim to windward	wind on your port side	wind on your starboard side	
15	1666	C	If you hear more than six short blasts, followed by one long blast on the whistle, and supplemented by the same signal on the general alarm, you should _____.	start the fire pump	go to your man overboard station	go to your lifeboat station	stand by for collision	
15	1667	C	After a person has been revived by artificial respiration, they should be _____.	walked around until he is back to normal	given several shots of whiskey	kept lying down and warm	allowed to do as he wishes	

15	1668	D	If vomiting occurs during a resuscitation effort, the best immediate procedure to follow is _____.	ignore it and continue mouth-to-mouth ventilation	pause for a moment until the patient appears quiet again, then resume mouth-to-mouth ventilation	switch to mouth-to-mouth ventilation	turn the patient's body to the side, sweep out the mouth and resume CPR	
15	1669	D	When a person who has fallen overboard is being picked up by a rescue boat, the boat should normally approach with the wind _____.	astern and the victim just off the bow	ahead and the victim just off the bow	just off the bow and the victim to windward	just off the bow and the victim to leeward	
15	1670	A	All personnel should be familiar with the lifeboats _____.	boarding and operating procedures	maintenance schedule	navigational systems	fuel consumption rates	
15	1671	C	When administering only mouth-to-mouth resuscitation, you should continue the victim's ventilation rate at how many inflations per minute?	4	8	12	20	
15	1672	A	When administering artificial resuscitation to an adult, the breathing cycle should be repeated about _____.	12 to 15 times per minute	18 to 20 times per minute	20 to 25 times per minute	as fast as possible	
15	1673	B	Artificial resuscitation to an adult should be administered _____.	4 to 6 times per minute	12 to 15 times per minute	20 to 30 times per minute	At least 30 times per minute	
15	1674	C	In order to initiate CPR on a drowning victim, _____.	start chest compressions before the victim is removed from the water	drain water from the lungs before ventilating	begin mouth-to-mouth ventilations	do not tilt the head back since it may cause vomiting	
15	1675	A	Which of the following is a correct statement with respect to inserting an airway tube?	Only a trained person should attempt to insert an airway tube.	A size #2 airway tube is the correct size for an adult.	The airway tube will not damage the victim's throat.	Inserting the airway tube will prevent vomiting.	
15	1676	D	While working in the engine room, you hear seven short blasts followed by one long blast on the ship's whistle, supplemented by the same signal on the general alarm bells. You should _____.	start the fire pump to charge the fire main	standby the main console and await orders from the engineer on watch	go to your fire station	go to your lifeboat station	
15	1677	B	You are alone and administering CPR to an adult victim. How many chest compressions and how many inflations should you administer in each sequence?	5 compressions, then 1 inflation	15 compressions, then 2 inflations	20 compressions, then 3 inflations	30 compressions, then 4 inflations	
15	1678	D	The MOST important element in administering CPR is _____.	having the proper equipment for the process	treating for shock	administering of oxygen	starting the treatment quickly	
15	1679	D	Changing rescuers while carrying out artificial respiration should be done _____.	at ten minute intervals	by not stopping the respiration for more than five minutes	only with the help of two other people	without losing the rhythm of respiration	
15	1680	B	Which of the following steps should normally be taken first by those who have boarded a lifeboat in an emergency situation?	Ration food and water supplies	Search for survivors	Determine position and closest point of land	Check pyrotechnic supplies	
15	1681	C	You are attempting to administer CPR to a victim. When you blow into his mouth it is apparent that no air is getting into the lungs. What should you do?	Raise the victim's head higher than his feet.	Blow harder to force the air past the tongue.	Re-tip the head and try again.	Press on the victim's lungs so that air pressure will blow out any obstruction.	
15	1682	C	The rescuer can best provide an airtight seal during mouth-to-mouth resuscitation by pinching the victim's nostrils and _____.	cupping a hand around the patient's mouth	keeping the head elevated	applying his mouth tightly over the victim's mouth	holding the jaw down firmly	
15	1683	B	You are alone and administering CPR to an adult victim. How many chest compressions and how many inflations should you administer in each sequence?	5 compressions then 1 inflation	15 compressions then 2 inflations	20 compressions then 3 inflations	30 compressions then 4 inflations	
15	1684	C	Two people are administering CPR to a victim. How many times per minute should the chest be compressed?	30	45	60	80	

			4	8	12	20	
15	1685	C	When administering mouth to mouth resuscitation to an adult, you should breathe at the rate of how many breaths per minute?				
15	1686	A	The signal for lowering the ship's lifeboats is sounded on the ship's whistle as _____.	one short blast	two long blasts	three short blasts	one long blast
15	1687	C	You are administering chest compressions during CPR. Where on the victim's body should the pressure be applied?	Tip of the sternum	Top half of the sternum	Lower half of the sternum	Left chest over the heart
15	1688	D	You are administering chest compressions on an adult victim during CPR, the sternum should be depressed about _____.	1/2 inch or less	1/2 inch to 1 inch	1 inch to 1-1/2 inches	1-1/2 inch to 2 inches
15	1689	D	Which of the following conditions is a symptom of heat stroke _____.	cold and moist skin, high body temperature	cold and dry skin, low body temperature	hot and moist skin, high body temperature	hot and dry skin, high body temperature
15	1690	A	Why are lifeboats usually double-ended?	They are more seaworthy and less likely to be swamped or broach to.	They can go forward and backward more easily.	They require less space for stowing aboard ship.	There is no particular reason for this.
15	1691	C	Physical exertion on the part of a person who has fallen into cold water can _____.	be the best thing to try if there was no rescue in sight	increase survival time in the water	increase the rate of heat loss from the body	not affect the heat loss from the body
15	1692	B	Which of the listed conditions is a symptom of sun stroke?	Temperature falls below normal, pulse is rapid and feeble, and skin is cold and clammy.	Temperature is high, pulse is strong and rapid, and skin is hot and dry.	Temperature is high, pulse is slow and feeble, and skin is clammy.	Temperature falls below normal, pulse is rapid, and skin is clammy.
15	1693	A	Treatment of sunstroke consists principally of _____.	cooling, removing to shaded area and having the victim lay down	bathing with rubbing alcohol	drinking ice water	All of the above
15	1694	C	To effectively treat a person suffering from heat exhaustion, you should _____.	administer artificial respiration	put him in a tub of ice water	give him sips of cool saline solution	take his blood pressure
15	1695	D	The symptoms of heat exhaustion are _____.	slow and strong pulse	flushed and dry skin	slow and deep breathing	pale and clammy skin
15	1696	D	A patient suffering from heat exhaustion should first be _____.	given mild seawater solution to drink to replace salt and fluids	kept standing and encouraged to walk slowly and continuously	given a glass of water and told to return to work after 15 minutes of rest	moved to a cool room and told to lie down
15	1697	B	Heat exhaustion is caused by excessive _____.	loss of body temperature	loss of water and salt from the body	gain in body temperature	intake of water when working or exercising
15	1698	D	The immersion suit requirements for OSVs apply to units operating in the Atlantic Ocean _____.	above 20 degrees North and below 20 degrees South	above 25 degrees North and below 25 degrees South	above 30 degrees North and below 30 degrees South	above 32 degrees North and below 32 degrees South
15	1699	D	A patient suffering from heat exhaustion should first be _____.	placed in a sitting position with the head lowered to the knees	kept standing and encouraged to walk slowly and continuously	given a glass of water and told to return to work after 15 minutes of rest	directed to move to a cool place unassisted
15	1700	B	In order for the automatic lifeboat drain to operate properly _____.	the cap should be removed to drain the boat when it is waterborne	the cage must be free of rubbish or the ball may not seat properly	there is an automatic ball check located in a siphon tube	the small lever to release the rubber ball float must be turned counterclockwise
15	1701	C	Where would you find a list of the lifesaving equipment onboard your supply boat?	Ship's articles	Station bill	Certificate of Inspection	U. S. Coast Guard Regulations
15	1702	A	Treatment of heat exhaustion should consist of _____.	moving to a shaded area and lying down	bathing with rubbing alcohol	placing patient in a tube of cold water	All of the above



15	1703	B	The greatest danger in cold temperatures, when at sea in an inflatable liferaft is _____.	asphyxiation due to keeping the canopy closed	hypothermia caused by the cold temperature	collapsing of the raft due to the cold temperature	starvation	
15	1704	C	You are at sea in an inflatable life raft. In high latitudes, the greatest danger is _____.	collapse of the raft due to cold temperatures	asphyxiation due to keeping the canopy closed	hypothermia caused by cold temperature	starvation	
15	1705	C	Inflatable life rafts shall be serviced at an approved servicing facility every 12 months or not later than the next vessel inspection for certification. However, the total elapsed time between servicing cannot exceed _____.	12 months	15 months	17 months	18 months	
15	1706	C	Which of the listed procedures should be followed when individuals are rescued in cold climates and suffer from hypothermia?	Give them brandy	Get them to a hot room	Immerse them in a warm bath 104°F (40°)	Cover with an electric blanket set for maximum temperature	
15	1707	B	A crew member suffering from generalized hypothermia should be given _____.	a small dose of alcohol	treatment for shock	a large meal	a brisk rub down	
15	1708	A	When combating a major electrical fire at sea, the main consideration is _____.	reducing the possibility of electrical shock to personnel	preventing a total loss of electrical power	preventing saltwater damage to electrical equipment	eliminating the toxic fumes from burning insulation	
15	1709	B	By definition, an example of a flammable liquid is _____.	kerosene	gasoline	caustic potash	animal and vegetable oils	
15	1710	D	Which of the following persons may command a lifeboat in ocean service?	Licensed deck officer	Able seaman	Certified lifeboatmen	All of the above	
15	1712	D	Coast Guard Regulations (46 CFR) require inflatable liferafts to be equipped with _____.	a first aid kit	an instruction manual	a sea anchor	all of the above	
15	1713	A	A crew member has suffered frostbite to the toes of his right foot. Which of the following is NOT an acceptable first aid measure?	Rub the toes briskly.	Elevate the foot slightly.	Warm the frost bitten toes rapidly.	Give aspirin or other medication for pain if necessary.	
15	1714	D	Treatment of frostbite is to _____.	rub with ice or snow	rub briskly to restore circulation	wrap tightly in warm cloths	warm exposed parts rapidly	
15	1715	A	A crew member has suffered frostbite to the toes of both feet. You should _____.	immerse the feet in warm water	warm the feet with a heat lamp	warm the feet at room temperature	rub the feet to restore circulation	
15	1716	C	The most important reason for taking anti-seasickness pills as soon as possible after entering a liferaft is to _____.	assist in sleeping	reduce appetite by decreasing nausea	prevent loss of body moisture by vomiting	prevent impaired judgement due to motion-induced deliriousness	
15	1718	C	Before attempting to put out a class "C" fire involving an electric-driven centrifugal pump, you should FIRST _____.	insulate your shoes	ground the fire hose	secure its power supply	start the fire pump	
15	1719	D	Gasoline is a flammable liquid whose vapors are _____.	heavier than air	toxic	highly explosive	all of the above	
15	1720	D	You have abandoned ship and after two days in a liferaft you can see an aircraft near the horizon apparently carrying out a search pattern. You should _____.	switch the EPIRB to the homing signal mode	use the voice transmission capability of the EPIRB to guide the aircraft to your raft	turn on the strobe light on the top of the EPIRB	use visual distress signals in conjunction with the EPIRB	
15	1721	B	Each liferaft container without an indicated maximum stowage height must be stowed at a height not more than _____.	3 meters (10 feet) above the waterline	18 meters (59 feet) above the waterline	indicated on the vessels certificate of inspection	required by the vessels station bill	
15	1722	A	A crew member is unconscious and the face is flushed. You should _____.	lay the crew member down with the head and shoulders slightly raised	administer a liquid stimulant	lay the crew member down with the head lower than the feet	attempt to stand the crew member upright to restore consciousness	

15	1723	B	Which of the documents listed will describe lifesaving equipment located aboard your vessel?	Station bill	Certificate of Inspection	Forecastle card	Clearance papers	
15	1724	D	Which procedure should NOT be done for a person whom has fainted?	Revive the person with smelling salts.	Loosen the clothing.	Lay the person horizontally.	Give pain reliever.	
15	1725	D	The proper stimulant for an unconscious person is _____.	tea	coffee	whiskey and water	Ammonia inhalant	
15	1726	D	Coast Guard Regulations (46 CFR) require that lifejackets shall be _____.	provided for each person onboard	provided for all personnel on watch	readily accessible to persons in the engine room	all of the above	
15	1727	A	A rescuer can most easily determine whether or not an adult victim has a pulse by checking the pulse at the _____.	carotid artery in the neck	femoral artery in the groin	brachial artery in the arm	radial artery in the wrist	
15	1728	D	If an electric motor catches fire, you should first _____.	use a CO2 extinguisher	cool the motor with air	remove the load	de-energize the circuit	
15	1729	B	If the diesel fuel vapors present are within the flammable range _____.	the vapor air mixture is too rich to burn	an explosion may occur if a source of ignition is present	the vapor air mixture is too lean to burn	the upper explosive limit has been exceeded	
15	1730	C	Lifejackets should be stowed in _____.	the forepeaks	the pumproom	readily accessible spaces	locked watertight containers	
15	1731	C	An unconscious person should NOT be _____.	placed in a position with the head lower than the body	given an inhalation stimulant	given something to drink	treated for injuries until conscious	
15	1732	A	Which should NOT be a treatment for a person who has received a head injury and is groggy or unconscious?	Give a stimulant.	Elevate his head.	Stop severe bleeding.	Treat for shock.	
15	1733	D	Which of the following conditions will allow for a work vest to be substituted for a lifejacket in the total count of the required lifesaving gear?	When it is approved by the Coast Guard	When working near or over the water	When stowed away from the ring buoys	A work vest may never be counted as a lifejacket	
15	1734	D	A conscious victim who has suffered a blow to the head has symptoms that indicate the possibility of concussion. If the patient feels no indication of neck or spine injury, recommended treatment would include _____.	turning the victim's head to the side to keep his airway open	positioning the victim so the head is lower than the body	giving the victim water if he is thirsty, but no food	elevating the head and shoulders slightly	
15	1735	A	In reviving a person who has been overcome by gas fumes, what would you AVOID doing?	Giving stimulants	Prompt removal of the patient from suffocating atmosphere	Applying artificial respiration and massage	Keeping the patient warm and comfortable	
15	1736	B	A person who gets battery acid in an eye should IMMEDIATELY wash the eye with _____.	boric acid solution	water	baking soda solution	ammonia	
15	1737	C	If a person gets something in his or her eye and you see that it is not embedded, you can _____.	get them to rub their eye until the object is gone	remove it with a match or toothpick	remove it with a moist, cotton-tipped applicator	remove it with a piece of dry sterile cotton	
15	1738	B	You are transferring fuel from the storage tanks to the day tanks by means of an electric fuel oil transfer pump. If the pump motor catches fire, you would FIRST _____.	secure the fuel manifold	shut off power to the pump	shut off the power ventilation	spray water on the fire	
15	1739	D	A victim is coughing and wheezing from a partial obstruction of the airway. An observer should _____.	perform the Heimlich maneuver	immediately start CPR	give back blows and something to drink	allow the person to continue coughing and dislodge the obstruction on his own	
15	1740	B	While providing assistance to a victim of an epileptic seizure, it is most important to _____.	give artificial respiration	prevent patient from hurting himself	keep the patient awake and make him/her walk if necessary to keep him/her awake	remove any soiled clothing and put the patient in a clean bed	

15	1741	A	A shipmate chokes suddenly, cannot speak, and starts to turn blue. You should _____.	perform the Heimlich maneuver	make the victim lie down with the feet elevated to get blood to the brain	immediately administer CPR	do nothing until the victim becomes unconscious	
15	1742	B	A shipmate suffers a heart attack and stops breathing. You must _____.	administer oxygen	immediately check his pulse and start CFR	make the victim comfortable in a bunk	immediately give a stimulant, by force if necessary	
15	1743	D	A shipmate suffers a heart attack and stops breathing. You must _____.	immediately give a stimulant, by force if necessary	make the victim comfortable in a bunk	administer oxygen	immediately start CPR	
15	1744	C	First aid means _____.	medical treatment of accident	setting of broken bones	emergency treatment at the scene of the injury	dosage of medications	
15	1745	C	To reduce mild fever the MOST useful drug is _____.	bicarbonate of soda	paregoric	asprin	aromatic spirits of ammonia	
15	1746	A	Treatment of sunstroke consists principally of _____.	cooling, removing to shaded area, and lying down	bathing with rubbing alcohol	drinking ice water	All of the above	
15	1747	B	What are the symptoms of sunstroke?	Temperature falls below normal, pulse is rapid and feeble, skin is cold and clammy.	Temperature is high, pulse is strong and rapid, skin is hot and dry.	Temperature is high, pulse is slow and feeble, skin is clammy.	Temperature falls below normal, pulse is rapid, skin is clammy.	
15	1748	B	To extinguish an electrical fire, your FIRST action should be to _____.	apply a low velocity fog	secure the power	Completely discharge a 15 pound (6.8 kg) CO2 extinguisher	apply mechanical or chemical foam	
15	1749	C	To treat a person suffering from heat exhaustion, you should _____.	administer artificial respiration	put him in a tub of ice water	give him sips of cool water	cover him with a light cloth	
15	1750	C	Physical exertion on the part of a person who has fallen into cold water would _____.	be the best thing to try if there was no rescue in sight	increase survival time in the water	increase the rate of heat loss from the body	not affect the heat loss from the body	
15	1751	C	Seasickness is caused by rolling or rocking motions which affect fluids in the _____.	stomach	lower intestines	inner ear	bladder	
15	1752	B	Symptoms of seasickness include _____.	fever and thirst	nausea and dizziness	stomach cramps and diarrhea	reddening of skin and hives	
15	1753	A	Symptoms of sugar diabetes include _____.	increased appetite and thirst	decreased appetite and thirst	gain in weight	elevated temperature	
15	1754	D	The symptoms of a fractured back are _____.	leg cramps in the muscles in one or both legs	pain and uncontrolled jerking of the arms and legs	vomiting and involuntary urination or bowel movement	pain at the site of the fracture and possible numbness or paralysis below the injury	
15	1755	B	What is the procedure for checking for spinal cord damage in an unconscious patient?	Beginning at the back of the neck, and proceeding to the buttocks, press the spine to find out where it hurts	Prick the skin of the hands and the soles of the feet with a sharp object to check for reaction	Selectively raise each arm and each leg and watch patient's face to see if he resists pain	Roll patient onto his stomach and prick along the length of his spine to check reaction	
15	1756	C	What are the symptom(s) of a ruptured appendix?	Dilated pupils and shallow breathing	Diarrhea and frequent urination	Muscle tenseness in almost the entire abdomen	Extreme sweating and reddening skin	

15	1757	B	Which procedure should be followed when individuals are rescued in cold climates and suffer from hypothermia?	Give them brandy or other alcoholic stimulation to promote a return to an acceptable body temperature.	Move them to a warm room to gradually raise their body temperature.	Keep them moving to stimulate circulation to raise their body temperature.	Warm them under an electric blanket to rapidly regain normal body temperature.	
15	1758	C	When fighting an electrical fire, you should first _____.	stop ventilation to the area	stop the vessel	secure electricity to the circuit	apply CO2 to the fire	
15	1759	C	The most effective treatment for warming a crew member suffering from hypothermia is _____.	running or jumping to increase circulation	raising body temperature rapidly by placing hands and feet in hot water	bundling the body in blankets to rewarm gradually	laying prone under heat lamps to rewarm rapidly	
15	1760	B	A crew member suffering from hypothermia should be given _____.	a small dose of alcohol	treatment for shock	a large meal	a brisk rub down	
15	1761	C	When administering first aid you should avoid _____.	any conversation with the patient	instructing bystanders	unnecessary haste and appearance of uncertainty	touching the patient before washing your hands	
15	1762	B	The primary concern in aiding a back injury patient is _____.	relieving the patient's pain by giving aspirin or stronger medication	avoiding possible injury to the spinal cord by incorrect handling	preventing convulsions and muscle spasms caused by pain	providing enough fluids to prevent dehydration	
15	1763	A	When personnel are lifted by a helicopter from an inflatable liferaft, the personnel on the raft should _____.	deflate the floor of the raft to reduce the danger of capsizing	inflate the floor of the raft to provide for additional stability	remove their lifejackets to prepare for the transfer	take in the sea anchor to prevent fouling of the rescue sling	
15	1764	D	When a helicopter is lifting personnel from a rescue boat, the other individuals in the boat should _____.	enter the water in case the person being lifted slips from the sling	stand on the outside of the boat to assist the person being lifted	remove their lifejackets to prepare for their transfer to the helicopter	remain seated inside to provide body weight for stability	
15	1765	C	Class "B" EPIRB's transmit on frequencies that are monitored by _____.	orbiting satellites in space	commercial radio stations	private, commercial, and military aircraft	commercial fishing vessels	
15	1766	A	When should the emergency position-indicating radio beacon(EPIRB) be activated after abandoning an OSV?	Immediately	After one hour	Only when another vessel is in sight	Only after sunset	
15	1767	D	After having activated the emergency position indicating radio beacon(EPRIB), you should _____.	turn it off for five minutes every half-hour	turn it off and on at five minute intervals	turn it off during daylight hours	leave it on continuously	
15	1768	D	Burning electrical insulation is best extinguished by _____.	soda acid	foam	water fog	carbon dioxide	
15	1769	D	If you have to abandon ship, the EPIRB can be used to _____.	hold the lifeboat's head up into the seas	generate orange smoke	seal leaks in rubber rafts	send radio homing signals to searching aircraft	
15	1770	D	Each vessel in ocean and coastwise service must have an approved EPIRB. An EPIRB _____.	must be stowed in a manner so that it will float free if the vessel sinks	must be stowed where it is readily accessible for testing and use	is a device that transmits a radio signal	all of the above	
15	1771	A	When using a handheld smoke signal in a liferaft, you should _____.	activate the signal on the downwind side	activate the signal on the upwind side	activate the signal inside the boat	activate the signal at the stern	
15	1772	D	When using a handheld smoke signal aboard a survival craft, you should activate the signal _____.	on the upwind side of the craft	inside the craft	at the stern of the craft	on the downwind side of the craft	
15	1773	A	Which of the following conditions represents the appropriate time for setting off distress flares and rockets?	Only when there is a chance of them being seen by rescue vessels.	At half-hour intervals.	At one hour intervals.	Immediately upon abandoning the vessel.	

15	1774	A	When should distress flares and rockets be used?	Only when there is a chance of them being seen by rescue vessels.	They should be set off at half-hour intervals.	They should be set off at one hour intervals.	Immediately upon abandoning the vessel.	
15	1775	B	Signaling devices required on inflatable life rafts include a(n) _____.	pistol	orange smoke signal	air horn	lantern	
15	1776	C	Signaling devices required on inflatable life rafts include _____.	a rocket shoulder rifle	an oil lantern	red flares	an air horn	
15	1778	D	If a fire occurs in an electric cable, in which the inner layers of insulation, or the insulation covered by armor is burning, you should _____.	secure power to the cable	cut the cable with an insulated cable cutter	separate the two ends	all of the above	
15	1779	C	A distress signal _____.	consists of 5 or more short blasts of the fog signal apparatus	consists of the raising and lowering of a large white flag	may be used individually in conjunction with other distress signals	is used to indicate doubt about another vessel's intentions	
15	1780	A	All of the following are recognized distress signals under the Rules of the Road EXCEPT _____.	a green star signal	orange-colored smoke	red flares	the repeated raising and lowering of outstretched arms	
15	1781	D	A man aboard a vessel, signaling by raising and lowering his outstretched arms to each side, is indicating _____.	danger, stay away	all is clear, it is safe to pass	all is clear, it is safe to approach	a distress signal	
15	1782	D	Distress signals may be _____.	red flares	smoke signals	sound signals	All of the above	
15	1783	A	When a vessel signals her distress by means of a gun or other explosive signal, the firing should be at intervals of approximately _____.	1 minute	3 minute	10 minutes	1 hour	
15	1784	D	You can indicate that your vessel is in distress by _____.	displaying a large red flag	displaying three black balls in a vertical line	sounding four short blasts and after two seconds sounding three more rapid blasts on the whistle	continuously sounding the fog horn	
15	1785	C	In accordance with Coast Guard Regulations, Coast Guard approved buoyant work vests _____.	should be stowed in engineering spaces in lieu of approved life preservers because they are less bulky and permit free movement in confined spaces	may be used as a substitute for approved life preservers during routine drills, but never during an emergency	should not be stowed where they could be confused with life jackets in an emergency	All of the above	
15	1786	D	Each personal flotation device light on an OSV that has a non-replaceable power source must be replaced _____.	every six months after initial installation	every 12 months after initial installation	every 24 months after initial installation	on or before the expiration date of the power source	
15	1787	B	Lifesaving equipment shall be stowed so that it will be _____.	locked up	readily accessible for use	inaccessible to passengers	on the topmost deck of the vessel at all times	
15	1788	D	When combating a class C fire, which of the following dangers may be present?	Flooding of the vessel	Increased surface area of the burning fluid	Water damage to machinery not involved in the fire	Toxic fumes from burning insulation	
15	1789	D	The light on a personal flotation device on a OSV must be replaced _____.	when the power source is replaced	each year after installation	every six months	as indicated by the expiration date	
15	1790	B	What is the minimum required number of ring life buoys on an OSV on ocean service ?	4	8	12	16	
15	1791	C	Of the required ring life buoys for an OSV on ocean service, how many must be equipped with a waterlight?	1	2	4	8	

15	1792	B	On a OSV, how many ring buoys are required to have a buoyant line attached?	One ring life buoy	One ring life buoy on each side of the OSV	Three ring life buoys	Two ring life buoys on each side of the OSV	
15	1793	B	Each distress signal and self-activated smoke signal must be replaced not later than the marked date of expiration, or from the date of manufacture, not later than _____.	12 months	24 months	36 months	42 months	
15	1794	C	Each EPIRB required on a OSV shall be tested using the integrated test circuit and output indicator every _____.	week	two weeks	month	two months	
15	1795	C	The person-in-charge shall insure that each rescue boat on a OSV is lowered to the water, launched, and operated at least once every _____.	month	two months	three months	six months	
15	1796	C	For a OSV not on an international voyage, an approved substitute for an impulse projected rocket type line throwing appliance is a _____.	spring-loaded line thrower	hand thrown buoyant line	shoulder type throwing gun	heaving line	
15	1797	A	How often is the line throwing appliance required to be tested on an OSV ?	Once a month	Once a year	Once a week	Once every four months	
15	1798	C	The most important property of any extinguishing agent used in fighting class "C" fires is the agent's _____.	cooling capacity	ability to suppress rekindling	nonconducting property	lack of fumes	
15	1799	D	The painter on a rigid life raft must have a length sufficient to reach the highest waterline plus an additional _____.	5 meters (16 feet)	10 meters (31 feet)	15 meters (50 feet)	20 meters (66 feet)	
15	1800	B	The painter of an inflatable life raft must have a minimum length of _____.	36 feet	50 feet	100 feet	300 feet	
15	1801	D	A life line must be connected to the liferaft _____.	at the bow	at the stern	in the middle	all around	
15	1803	C	On vessels on an international voyage, each inflatable life raft shall have a carrying capacity of not less than _____.	50 percent of all persons on board	75 percent of all persons on board	6 persons	10 persons	
15	1804	D	If the buoyant force on a ship's hull is equal to or greater than the displacement tonnage, the ship will _____.	require ballast added to only the port side tanks	be down by the head	sink	float	
15	1805	C	A life raft with a capacity of 8 people in ocean service is required by regulation to carry _____.	8 liters of fresh water	12 units of provisions	12 liters of fresh water	24 units of provisions	
15	1807	B	Who should inspect and test an inflatable life raft?	The chief mate	An approved servicing facility	Shipyard personnel	A certified lifeboatman	
15	1808	B	Inflatable life rafts must be overhauled and inspected at a USCG approved servicing facility every _____.	six months	twelve months	eighteen months	twenty-four months	
15	1809	B	Diesel fuel is relatively safe to handle due to its low volatility, but the fumes will self-ignite and continue to burn steadily if the fuel is heated to the _____.	flash point	autoignition point	volatility point	upper explosive limit	
15	1810	B	Portable tank cleaning machines are usually provided with a water supply from the _____.	inert gas scrubber	firemain	mucking supply system	pumproom sea chest	
15	1811	B	You must insure that lifesaving equipment is _____.	locked up	readily accessible for use	inaccessible to passengers	on the topmost deck of the vessel at all times	
15	1812	B	The capacity of any life raft on board a vessel can be determined by _____.	examining the Certificate of Inspection	examining the plate on the outside of the container	referring to the station bill	referring to the Shipping Articles	
15	1813	B	Information on the specification of a rescue boat can be found by _____.	examining the certificate of inspection	examining the nameplate on the transom	referring to the station bill	referring to the shipping articles	

15	1814	B	When a vessel is inclined, the tendency for it to return to its original position is caused by the _____.	movement of the center of gravity	movement of the center of buoyancy toward the low side of the vessel	upward movement of the center of flotation	increased free surface in the buoyant wedge	
15	1815	B	When using the rainwater collection tubes on a liferaft, the FIRST collection should be _____.	passed around so all can drink	poured overboard because of salt washed off the canopy	saved to be used at a later time	used to boil food	
15	1816	C	While adrift in an inflatable liferaft in hot, tropical weather _____.	the canopy should be deflated so that it will not block cooling breezes	the pressure valve may be periodically opened to prevent excessive air pressure	deflating the floor panels may help to cool personnel	the entrance curtains should never be opened	
15	1817	D	You have abandoned ship in tropical waters. Which of the following procedures should be used during a prolonged period in a life raft ?	Wet clothes during the day to decrease perspiration.	Get plenty of rest.	Keep the entrance curtains opened.	All of the above.	
15	1818	B	You have abandoned ship and are in charge of a liferaft or lifeboat. How much water per day should you permit each person after the first 24 hours?	1 can	1 pint	1 quart	1 gallon	
15	1819	B	When should food and water be provided to survivors after boarding a lifeboat or life raft?	After 12 hours	After 24 hours	After 48 hours	Some food and water immediately and then not until 48 hours later	
15	1820	A	After abandoning a vessel, water consumed within the first 24 hours _____.	will pass through the body with very little being absorbed by the system	will help to prevent fatigue	will quench thirst for only two hours	helps to prevent seasickness	
15	1821	B	In the first 24 hours after abandoning a vessel, water should be given only to personnel who are _____.	thirsty	sick or injured	wet	awake	
15	1822	C	Once the daily ration of drinking water in a survival situation has been established, the drinking routine should include _____.	small sips at regular intervals during the day	a complete daily ration at one time at noon	one half the daily ration twice during the day	small sips only after sunset	
15	1824	C	The center of volume of the immersed portion of the vessel is the _____.	center of flotation	metacentric height	center of buoyancy	center of gravity	
15	1825	B	If there are a number of survivors in the water after abandoning an OSV and no rescue craft or life raft are in sight, they should _____.	tie themselves to the unit to avoid drifting with the current	group to form a small circle of survivors to create a warmer pocket of water in the center of the circle	send the strongest swimmer to shore for assistance	form a raft by lashing their lifejackets together	
15	1826	A	To keep injured survivors warm in the water after abandoning an OSV, they should _____.	be placed in the middle of a small circle formed by the other survivors in the water	float on their backs with their arms extended for maximum exposure to the air	remove their lifejackets and hold on to the uninjured survivors	sip seawater at intervals of fifteen minutes	
15	1827	B	If you continue to wear extra clothing when entering the water after abandoning your vessel, it will _____.	weigh you down	preserve body heat	reduce body heat	make it more difficult to breathe	
15	1828	A	The most important characteristic of a fire extinguishing agent to be used on electrical fires is for the agent to be _____.	nonconducting	flame resistant	easily removable	wet	
15	1829	D	If help has not arrived in 10-12 hours after having abandoned an OSV in a survival craft, you should _____.	go in one direction until the fuel runs out	plot course for the nearest land	take a vote on which direction you should go	shutdown the engines and set the sea anchor	
15	1830	B	Provided every effort is used to produce, as well as preserve body moisture content by avoiding perspiration, how long is it normally possible to survive without stored quantities of water?	Up to 3 days	8 to 14 days	15 to 20 days	25 to 30 days	

15	1831	A	All OSV personnel should be familiar with the survival craft _____.	boarding and operating procedures	maintenance schedule	navigational systems	fuel consumption rates	
15	1832	A	A liferaft which has inflated bottom-up on the water _____.	should be righted by standing on the carbon dioxide cylinder, holding the righting straps and leaning backwards	should be righted by standing on the lifeline, holding the righting straps and leaning backwards	will right itself when the canopy tube inflates	must be cleared of the buoyant equipment before it will right itself	
15	1833	D	If an inflatable liferaft is overturned, it may be righted by _____.	filling the stabilizers on one side with water	releasing the CO2 cylinder	pushing up from under one end	standing on the inflating cylinder and pulling on the straps on the underside of the raft	
15	1834	A	When a vessel is inclined due to an external force, such as the action of seas in which no cargo shifts, the tendency of the vessel to return to its original position is caused by the shift in _____.	center of buoyancy	center of gravity	center of flotation	metacentric radius	
15	1837	A	After having thrown the liferaft stowage container into the water, the liferaft is inflated by _____.	pulling on the painter line	forcing open the container which operates the CO2	hitting the hydrostatic release	using the hand pump provided	
15	1838	B	Which of the following steps should normally be taken first by those who have boarded a lifeboat in an emergency situation?	Ration food and water supplies	Search for survivors	Determine position and closest point of land	Check pyrotechnic supplies	
15	1839	D	During an abandonment or drill, the first person to arrive at the survival craft should _____.	pass out food and water to personnel	open the doors and start the sprinkler system	activate the emergency release handle	open the doors and prepare the craft for boarding	
15	1840	A	Immediately after abandoning a vessel, lookouts should be posted aboard liferafts to look for _____.	survivors in the water	food and water	land	bad weather	
15	1841	B	One of the first actions to be taken by survivors when they have boarded an inflatable liferaft is to _____.	break out food rations	read the instruction card	open the pressure relief valve	drink at least one can of water	
15	1842	B	One of the first actions to be taken by survivors when they have boarded an inflatable liferaft is to _____.	break out food rations	prepare to cut the sea painter	open the pressure relief valve	drink at least one can of water	
15	1843	A	If you reach shore in a liferaft, the first thing to do is _____.	drag the raft ashore and lash it down for shelter	find some wood for a fire	get the provisions out of the raft	set the raft back out to sea so someone may spot it	
15	1844	D	When a ship is abandoned and there are several liferafts in the water, one of the FIRST things to be done is _____.	separate the rafts as much as possible to increase chances of detection	transfer all supplies to one raft	transfer all the injured to one raft	secure the rafts together to keep them from drifting apart	
15	1846	D	If more than one liferaft is manned after the vessel has sunk, _____.	each raft should go in a different direction in search of land	the possibility of a search aircraft finding you is increased by spreading out	reduce the number of rafts by getting as many people as possible into as few rafts as possible	tie each of the rafts together and try to stay in a single group	
15	1847	A	If you have to abandon ship and enter a liferaft, your main course of action should be _____.	remain in the vicinity of the vessel	head for the closest land	head for the closest sea-lanes	get a majority opinion	
15	1848	D	Class C fires may be combatted using a _____.	dry chemical extinguisher	carbon dioxide extinguisher	halon extinguisher	all of the above	
15	1849	A	If you are forced to abandon ship in a rescue boat, you should _____.	remain in the vicinity of the vessel	head for the nearest land	head for the closest sea-lanes	have an all hands vote on what to do	



15	1850	C	If you are forced to abandon an OSV, following the launching of the survival craft you should _____.	plot a course to the nearest land	take a vote on which direction to go	stay in the immediate area	go in one direction until the fuel runs out	
15	1851	D	Which statement is TRUE concerning an inflatable life raft?	The floor may be inflated for insulation from cold water.	Crew members can jump into the raft without damaging it.	The raft may be boarded before it is fully inflated.	All of the above.	
15	1852	B	Which of the following emergency signals are used to report for boat stations or boat drills?	Three short blasts of the whistle along with the same signal on the general alarm bells.	More than six short blasts and one long blast of the whistle, along with the same signal on the general alarm bells.	Steady rapid ringing of the ship's bell for at least 10 seconds, along with the same signal on the general alarm bells.	Less than five short blasts and one long blast of the whistle, along with the same signal on the general alarm bells.	
15	1853	D	When more than six short blasts and one long blast of the ship's whistle, accompanied by the same signal on the general alarm bell is sounded, the signal is for _____.	fire and emergency	boat recall	man overboard	boat stations (abandon ship)	
15	1855	B	While at your lifeboat station, you hear a signal consisting of one short blast of the whistle. This indicates _____.	abandon ship	commence lowering boats	stop lowering boats	secure from boat stations	
15	1856	B	Traditionally, the signal for fire aboard a vessel is _____.	More than six short blasts and one long blast on the whistle.	Continuous blast of the ship's whistle for a period of not less than 10 seconds supplemented by the same signal on the general alarm.	Three short blasts of the whistle supplemented by the same signal on the general alarm.	More than six short blasts and one long blast on the whistle supplemented by the same signal on the general alarm.	
15	1858	B	To fight a class "C" fire, you should use carbon dioxide or _____.	mechanical foam	dry chemical	chemical foam	chemically treated saw dust	
15	1859	B	The fire alarm signal onboard United States flag merchant vessels is a continuous blast of the whistle for a period of not less than 10 seconds, supplemented by the continuous ringing of the general alarm bells for not less than 10 seconds. Where can this information be readily found aboard ship?	Certificate of Inspection	Station bill	SOLAS Safety Construction Certificate	Fire Alarm Zone Chart	
15	1860	B	When you hear three short blasts on the ship's whistle and the same signal on the general alarm bells, you _____.	are required to go to your liferaft	are dismissed from drills	should point to the man overboard	should start the fire pump	
15	1861	D	Coast Guard Regulations 46 CFR, stipulate that in addition to emergency signals, muster lists must specify _____.	actions to be taken by persons on board when each signal is sounded	the order to abandon the vessel	the duties assigned to different members of the crew	all of the above	
15	1862	C	The abandon ship signal is _____.	a continuous ringing of the general alarm bells for at least 10 seconds	A continuous ringing of the general alarm, and sounding of the ships whistle	more than 6 short blasts and 1 long blast of the ships whistle and the same on the general alarm bells	a continuous sounding of the ships whistle	
15	1863	C	The abandon ship signal sounded by the vessels whistle is _____.	6 short blasts and 1 long blast	more than 6 short blasts	more than 6 short blasts and 1 long blast	1 long blast of at least 10 seconds	
15	1864	B	The traditional signal to commence lowering lifeboats and liferafts is _____.	3 short blasts of the ships whistle	1 short blast of the ships whistle	3 long blasts of the ships whistle	1 long blast of the ships whistle	
15	1865	C	You hear the general alarm bells and ships whistle sound for over 10 seconds. Traditionally, this is the signal for _____.	abandon ship	dismissal from drills	fire and emergency	lower lifeboats	

15	1867	D	Coast Guard approved buoyant work vests _____.	may be substituted for 10 percent of the required life preservers	should be stowed adjacent to rescue boats and emergency stations	may be used by boat crews and line handlers during rescue boat drills	should be used when carrying out duties near a weather deck's edge	
15	1868	B	If a CO2 fire extinguisher is not readily available, which of the listed fire extinguishers would be best suited to combat a small electrical fire in a switchboard?	Dry chemical	Halon	Low velocity fog	Steam	
15	1869	C	If your vessel is equipped with inflatable life rafts, how should they be maintained?	Have your crew check them annually	They do not need any maintenance	Have them sent ashore to an approved maintenance facility annually	Have them serviced by the shipyard annually	
15	1870	B	What is NOT requirement for testing the line throwing appliance on a vessel?	The appliance should be tested every three months	A regular service line should be used when testing	A regular projectile should be used when testing	An entry about the test must be made in the Official Log Book	
15	1871	B	Each distress signal and self-activated smoke signal must be replaced not later than the marked date of expiration, or from the date of manufacture, not later than _____.	12 months	24 months	36 months	42 months	
15	1872	C	Your vessel is required to have an impulse-projected line throwing appliance. The auxiliary line must _____.	be of light color	be 250 meters in length	have a breaking strength of 9000 lbs force	be made of synthetic material	
15	1873	D	If you have to abandon ship, the EPIRB can be used to _____.	hold the lifeboat's head up into the seas	generate orange smoke	seal leaks in rubber rafts	send radio homing signals to searching aircraft	
15	1874	C	Which visual distress signal is acceptable for daylight use only?	Handheld red flare	Self-contained rocket propelled red parachute flare	Orange smoke signal	Red aerial pyrotechic flare	
15	1876	C	Line throwing apparatus aboard ship must contain _____.	two rockets, one of which shall be the buoyant type	three rockets, one of which shall be buoyant type	four rockets, two of which shall be the buoyant type	five rockets, two of which shall be the buoyant type	
15	1877	B	The breaking strength of the service lines of the rockets used with an impulse-projected, rocket type line throwing appliances is _____.	300 lbs	500 lbs	1000 lbs	1500 lbs	
15	1878	C	If a fire broke out in an automation console, you would first secure the power and then proceed to use which of the listed hand portable fire extinguishers?	Soda acid	Dry chemical	CO2	Foam	
15	1879	D	If you have to jump into the water when abandoning an OSV, your legs should be _____.	spread apart as far as possible	held as tightly against your chest as possible	in a kneeling position	extended straight down and crossed at the ankles	
15	1880	A	Using a sea anchor will _____.	reduce the drift rate of the liferaft	keep the liferaft from turning over	aid in recovering the life raft	increase your visibility	
15	1881	C	Lifejackets should be stowed in _____.	survival craft	messrooms	readily accessible spaces	locked watertight containers	
15	1882	B	A life raft with a capacity of 8 people in ocean service is required by regulation to carry _____.	8 liters of fresh water	12 liters of fresh water	12 units of provisions	24 units of provisions	
15	1883	D	Which of the following statements is TRUE concerning an inflatable life raft?	The floor may be inflated for insulation from cold water.	Crew members can jump into the raft without damaging it.	The raft may be boarded before it is fully inflated.	All of the above.	
15	1884	A	Which of the following signals is used to report for boat station drills _____.	more than six short blasts followed by one long blast of the whistle	a continuous blast of the whistle for a period of not less than 10 seconds	one long blast followed by three short blasts of the whistle	three short blasts of the whistle	
15	1885	B	Who should inspect and test an inflatable life raft?	The person in Charge	An approved servicing facility	Shipyard personnel	A certified lifeboatman	

15	1886	D	When using a handheld smoke signal aboard a survival craft, you should activate the signal _____.	on the upwind side of the craft	inside the craft	at the stern of the craft	on the downwind side of the craft	
15	1887	D	The float free link attached to a sea painter on a liferaft has a breaking strength of _____.	100-136 lbs for buoyant apparatus with a capacity of 10 persons or less	200-268 lbs for buoyant apparatus with a capacity of 11 to 20 persons	400-536 lbs for buoyant apparatus with a capacity of 21 persons or more	All of the above	
15	1889	C	The most effective warming treatment for a crew member suffering from hypothermia is _____.	running or jumping to create heat	lying in the sun	a warm water bath	laying prone under heat lamps to rewarm rapidly	
15	1890	D	Which of the devices listed will prevent an inflated liferaft from being pulled under by a vessel which sinks in water over 100 feet deep?	The hydrostatic release	A sheer pin	A rottmer release	A weak link in the painter	
15	1891	D	A lifeline must be connected to the liferaft _____.	at the bow	at the stern	in the middle	all around	
15	1892	C	What is the maximum length of time that distress flares are approved for?	1 and 1/2 years	2 years	3 and 1/2 years	5 years	
15	1893	A	Which statement is TRUE concerning distress signals in survival craft?	Hand held flares and orange smoke.	If hand held rocket-propelled parachute flares are provided, they are the only distress signals required.	Two hand-held smoke signals shall be provided.	A very pistol with twelve flares is required.	
15	1894	C	By regulation, orange smoke distress signals will expire not more than how many months from the date of manufacture?	24 months	36 months	42 months	54 months	
15	1895	B	Each distress signal and self-activated smoke signal must be replaced not later than the marked date of expiration, or not more than how many months from the date of manufacture?	12	24	36	42	
15	1896	C	If a hydrostatic release mechanism for an inflatable liferaft is not periodically serviced and becomes inoperable, it will fail to _____.	set the water lights on the immersion	release the dyemaker from the liferaft	free the liferaft from the vessel	break the seal on the carbon dioxide cylinder	
15	1897	C	Your ship is sinking rapidly. A container containing an inflatable liferaft has bobbed to the surface upon functioning of the hydrostatic release. Which action should you take?	Cut the painter so it will not pull the liferaft container down.	Swim away from the container so you will not be in danger as it goes down.	Take no action because the painter will cause the liferaft to inflate and open the container.	Manually open the container and inflate the liferaft with the hand pump.	
15	1898	C	To extinguish an electrical fire, you should use _____.	mechanical foam	chemical foam	carbon dioxide	soda acid	
15	1899	B	One of the first actions to be taken by survivors when they have boarded an inflatable liferaft is to _____.	break out food rations	stream the sea anchor	open the pressure relief valve	drink at least one can of water	
15	1900	A	Puncture leaks in the lower tubes, or bottom of an inflatable liferaft should first be stopped by using _____.	sealing clamps	repair tape	a tube patch	sail twin and vulcanizing kit	
15	1901	D	The sea anchor shown as item number 18 will NOT _____.	check the liferaft's way	keep the life raft end on to the sea	reduce the possibility of broaching or capsizing	right the raft if it inflates inverted	See illustration number(s): SF-0042
15	1902	C	In the illustration, the sea painter is item number _____.	1	12	16	18	See illustration number(s): SF-0042
15	1903	D	In the illustration, the sea anchor is shown as item number _____.	7	13	15	18	See illustration number(s): SF-0042
15	1904	D	In the illustration shown, where would you find the knife?	Item #2	Item #4	Item #22	Item #23	See illustration number(s): SF-0042

15	1905	C	In the illustration, which item correctly identifies the ballast bags?	Item #2	Item #12	Item #13	Item #22	See illustration number(s): SF-0042
15	1906	B	Which of the following represents the emergency signal for fire aboard ship?	More than six short blasts and one long blast on the whistle.	Continuous blast of the ship's whistle for a period of not less than 10 seconds supplemented by the same signal on the general alarm.	Three short blasts of the whistle supplemented by the same signal on the general alarm.	More than six short blasts and one long blast on the whistle supplemented by the same signal on the general alarm.	
15	1907	B	In the illustration shown, the righting strap is shown as item number _____.	8	9	12	16	See illustration number(s): SF-0042
15	1908	C	Which of the listed fire extinguishers should be used on an electrical fire aboard ship?	Foam	Soda acid	Carbon dioxide	Carbon tetrachloride	
15	1909	C	By definition, combustible liquids are liquids which _____.	spontaneously ignite	are highly volatile with a flash point of 0°F	have a flash point of 80°F or higher	give off flammable vapors at or below 80°F	
15	1910	A	The external recognition light can be seen for up to two miles and is shown as item number _____.	3	5	8	23	See illustration number(s): SF-0042
15	1911	B	In the illustration shown, the pressure relief valve is indicated as item number _____.	3	4	9	11	See illustration number(s): SF-0042
15	1913	B	In the illustration shown, the external lifelines are shown as item number _____.	1	12	15	21	See illustration number(s): SF-0042
15	1914	B	As shown in the illustration, item #8 would be a(n) _____.	recognition light	rain water catchment tube assembly	pressure relief valve	floating sheath knife	See illustration number(s): SF-0042
15	1915	B	In the illustration shown, the CO2 tripping lanyard is item number _____.	12	15	17	18	See illustration number(s): SF-0042
15	1916	C	Which of the following signals represents the emergency signal for a fire aboard a U.S. flag merchant vessel?	Rapid blowing of the ship's whistle for a period of not less than 10 seconds, supplemented by the same signal on the ship's bell.	Rapid ringing of the ship's bell for a period of not less than 10 seconds, supplemented by the same signal on the general alarm.	A continuous blast of the whistle for a period of not less than 10 seconds, supplemented by the continuous ringing of the general alarm bells for not less than 10 seconds.	A rapid ringing of the ship's bell for a period of not less than 10 seconds, supplemented by the same signal on the ship's whistle.	
15	1917	B	In the illustration shown, the weak link is item _____.	7	17	19	23	See illustration number(s): SF-0042
15	1918	C	Which of the listed fire extinguishers would be most effective to use on a fire in a small electric motor?	Soda acid	Foam	CO2	Light water	
15	1919	C	A liquid having a flash point above 80°F, but below 150°F, would be termed a grade _____.	A flammable liquid	C flammable liquid	D combustible liquid	E combustible liquid	
15	1926	C	A continuous sounding of the vessel's whistle, supplemented by a continuous ringing of the general alarm bells for a period of not less than 10 seconds, is the signal for _____.	man overboard	boat stations	fire stations	secure from all drills	
15	1928	A	Which of the fire extinguishing agents listed is the safest to use when combating a class C fire?	CO2	Foam	Water fog	Soda acid	
15	1936	B	If you hear a continuous blast of the whistle for a period of not less than 10 seconds; supplemented by a continuous ringing of the general alarm bells for the same time period, you should _____.	go to your lifeboat station	go to your fire station	standby for collision	proceed to your man overboard muster station	
15	1938	A	Which of the listed fire extinguishers is recommended for use on an electrical switchboard fire?	CO2	ABC dry chemical	CO2 propelled foam	All of the above	

15	1939	C	Which of the petroleum products listed has the lowest flash point?	Hydraulic oil	Lubricating oil	Diesel oil	Refrigeration oil	
15	1946	C	A continuous blast of the ship's whistle for a period of not less than 10 seconds, supplemented by a continuous sounding of the general alarm for a period of not less than 10 seconds, is the _____.	boat stations signal	secure from boat stations signal	fire alarm signal	lower lifeboats signal	
15	1956	B	If you hear a continuous blast of the whistle for a period of not less than 10 seconds, supplemented by a continuous ringing of the general alarm bells for not less than 10 seconds, you should go to your _____.	boat station	fire station	man overboard station	collision station	
15	1966	A	A continuous blast of the whistle for a period of not less than 10 seconds, supplemented by the continuous ringing of the general alarm bells for not less than 10 seconds, would indicate a _____.	fire	collision	man overboard	flooded compartment	
15	2000	C	After completing survey under Coast Guard Regulations (33 CFR), no significant change may be made in the construction, equipment, fittings, arrangements, or materials covered by the survey without the sanction of the _____.	State Water Management Authority	Environmental Pollution Agency	U.S.C.G. Officer in Charge of Marine Inspection	Marine Pollution Investigatory Board	
15	2002	C	Before making any welded repairs to the internals of a vessel's fuel tank in a U.S. port, the tank must be examined by _____.	the chief engineer	the master of the vessel	a certified marine chemist	the insurance underwriter	
15	2003	D	The fire extinguisher shown in the illustration will be charged with _____.	light water	chemical foam	carbon dioxide	dry chemical	See illustration number(s): SF-0006
15	2004	D	A vessel's stability is greatly reduced by liquid free surface. Which of the listed conditions would develop the greatest adverse effect?	Tanks which are 95% full.	Tanks which have been pressed up to full capacity.	Tanks which have been completely emptied.	Tanks which are 40% full.	
15	2007	C	What first aid is appropriate for skin contact with tank residue from a cargo of leaded gasoline?	Cover the affected area with petroleum jelly.	Immerse the area in a solution of boric acid.	Wash the area with soap and water immediately.	Administer a strong stimulant and treat for shock.	
15	2008	B	A class "D" fire would involve the burning of _____.	diesel oil	magnesium	dunnage	electrical insulation	
15	2012	C	While in a foreign port, burning and welding repairs are to be carried out on a section of heating coil located in a tank having last contained a grade "D" product. Which of the following procedures should be followed when a certified marine chemist is not available?	It is solely the chief engineer's responsibility to ensure all safety precautions are observed, and all entries are to be made in the engine room log.	The repair work cannot be done at this time due to the lack of the chemist's certificate.	Prior to any hot work, an inspection must be made by the senior officer present, and an entry made in the official logbook.	Repairs should proceed as scheduled since a chemist's certificate is not required for that type of work.	
15	2013	C	The fire extinguisher shown in the illustration should be filled with _____.	light water	foam	dry chemical	Halon 1301	See illustration number(s): SF-0006
15	2014	C	The principal effect of liquid free surface is dependent upon the volume of displacement of the vessel and the _____.	height of liquid in the tank	amount of liquid in the tank	dimensions of the liquid surface	weight of liquid in the tank	
15	2022	D	A fuel tank is considered to be gas free when the tank is _____.	inerted with carbon dioxide for 24 hours	free of most flammable gas concentrations	thoroughly ventilated for at least 24 hours	free of dangerous concentrations of flammable or toxic gases	
15	2023	C	The fire extinguishing agent used in the fire extinguisher shown in the illustration is _____.	light water	chemical foam	dry chemical	carbon dioxide	See illustration number(s): SF-0006
15	2024	C	Any single ship's compartment sustaining partial flooding with free communication to the sea will _____.	increase reserve buoyancy	decrease the free surface effect	seriously reduce stability	result in the ship's sinking	

15	2032	C	A tank or compartment is considered gas free when it is free of dangerous concentrations of _____.	all flammable liquids	any combustible liquid	flammable or toxic gases	all cargo oil	
15	2033	B	The fire extinguisher shown in the illustration is a _____.	cartridge-operated foam extinguisher	cartridge-operated dry chemical extinguisher	cartridge-operated CO2 type extinguisher	foam extinguisher	See illustration number(s): SF-0006
15	2034	B	Excessive free surface occurring in tanks carrying liquid cargo should be avoided in order to _____.	maintain hog and sag	maintain good stability	prevent oil pollution	all of the above	
15	2042	A	Where grades A, B, C, and D liquid cargoes are involved, power-driven or manually-operated spark producing devices shall not be used in the cargo pump room unless _____.	the compartment itself is gas free	the vessel is gas free	all cargo tanks are empty	all cargo tanks have been inerted	
15	2043	B	Servicing of a cartridge-operated dry chemical fire extinguisher aboard ship would include ensuring that the _____.	pressure gage is within the operating range	powder is not caked and there is a full charge	cartridge weight is not less than 1/4 ounce of weight stamped on cartridge	recharge of weight loss exceeds 10% of the weight of charge	
15	2044	A	Vessel stability is greatly affected when water or fuel tanks are partially filled as a result of the _____.	free surface effect	free communication effect	increase of buoyancy	decrease in draft	
15	2052	D	Which of the following precautions are necessary when using any electrical equipment in a hazardous location, such as a cargo pumproom?	The pumproom is to be gas free.	The adjacent compartments are to be gas free.	Each compartment where flammable gas is expected to accumulate is to be closed and secured.	All of the above.	
15	2053	B	The powder in a dry chemical fire extinguisher _____.	is always ready for use and requires no attention	may cake up and fail to discharge properly if not occasionally agitated	deteriorates to an unusable condition within three years	puts out the fire with its cooling action	
15	2054	B	When any tank or compartment is partially filled with a liquid free to move as the ship rolls, the free surface effect is present. This condition will usually _____.	increase reserve buoyancy	reduce ship stability	cause a permanent list	change the ship's trim	
15	2058	C	After a fire has been extinguished in a closed space, personnel may safely enter the space when _____.	smoke density has been decreased sufficiently to see the bulkhead opposite the compartment's entrance	a lifeline and explosion proof flash light are used	all smoke and toxic fumes are removed and an adequate oxygen supply is present	overhaul has been completed to remove any possible source of reignition	
15	2063	C	Which of the following statements is true concerning the fire extinguisher shown in the illustration?	The large canister piece contains light water.	The state of charge can be determined by examining the pressure gauge.	The extinguisher can be recharged aboard ship.	All of the above.	See illustration number(s): SF-0006
15	2064	A	Ships are less stable when water or fuel tanks are partially filled because of the _____.	free surface effect	increase in buoyancy	decrease in draft	reduction in trim	
15	2072	A	To prevent an explosion when the pumproom has not been certified gas free and repairs are to be carried out, the only type of portable electric equipment allowed in the pumproom would be an approved _____.	explosion proof self-contained battery powered lamp	1/2 HP electric hand drill	marine drop lamp and extension cords	portable hand grinder	
15	2073	D	Which of the following procedures should be used to examine a cartridge-operated dry chemical fire extinguisher?	Make certain that the pressure cartridge has not been punctured.	Check to see that hose and nozzle are clear.	Ensure that dry chemical is not become caked.	All of the above.	
15	2074	D	Adverse effects due to free surface will result when _____.	the vessel is trimmed by the stern	the vessel's draft is decreased exposing more surface area to the wind and current	the vessel's draft is increased, thus increasing the vessel's wetted surface area	a portion of liquid is removed from a full tank	

15	2078	B	Before a shipboard fire can be declared completely out, which of the following steps is/are essential?	The cause of the fire is to be known.	The fire area is safe for men to enter without a breathing apparatus.	The fire area is sufficiently cooled so that accidental skin burns will not occur.	All of the above.	
15	2080	D	According to Coast Guard Regulations (46 CFR), pumproom ventilation on a U.S. flag tanker may be accomplished by _____.	steam or air actuated gas ejectors	power blowers	natural ventilators	all of the above	
15	2082	B	Coast Guard Regulations (46 CFR), require electric hand lamps, approved for use in fuel tanks, to be battery powered and _____.	flame resistant	explosion proof	corrosion resistant	moisture proof	
15	2083	D	Proper maintenance of a dry chemical fire extinguisher will include _____.	adding water to the powder	painting the CO2 cartridge red	puncturing the CO2 cartridge	shaking the extinguisher to loosen the caked-up portions of the powder	
15	2084	A	A vessel whose fuel tanks are half full is subject to _____.	free surface effect	serious loss of reserve buoyancy	severe sagging	severe hogging	
15	2088	C	If there has been a fire in a closed unventilated compartment it may be unsafe to enter because of _____.	unburned carbon particles	excess nitrogen	a lack of oxygen	excess hydrogen	
15	2093	B	The annual preventive maintenance on the fire extinguisher illustrated, by the vessel's crew, would include _____.	oiling the hinge on piece No. 3	examining seal on cylinder piece No. 4	renewing handle return spring in piece No. 1	hydrostatically testing piece No. 6	See illustration number(s): SF-0006
15	2098	B	You are in compartment "A", shown in the illustration, and suspect a fire in compartment "B". In order to check for and confirm the fire in compartment "B" you should _____.	open the watertight door	feel the bulkhead	tap the bulkhead	move a lighted candle along watertight door seal	See illustration number(s): SF-0005
15	2100	C	On a newly constructed oceangoing vessel of 10,000 gross tons, equipped with an approved 100 ppm oily water separator, and bilge monitor, the bilge monitor continuous record must be _____.	kept readily available for 1 year only	detached monthly for enclosure in the Oil Record Book	maintained onboard for not less than 3 years	initialled after each engineering watch by the watch engineer	
15	2104	B	Vessel stability can be adversely affected by _____.	decreasing the laden draft	increasing the free surface effect	ballasting down by the bow	ballasting down by the stern	
15	2106	D	Coast Guard Regulations 46 CFR, stipulate that in addition to emergency signals, muster lists must specify _____.	actions to be taken by persons on board when each signal is sounded	the order to abandon the vessel	the duties assigned to different members of the crew	all of the above	
15	2108	C	When reentering an engine room that has been flooded with CO2, the investigating team should initially _____.	leave the access door partially open	enter from the lowest level	enter from the highest level	attempt to operate machinery	
15	2109	D	Liquid petroleum products will become electrically charged as a result of the _____.	splashing or spraying of oil into a tank	movement of water droplets in an oil filled tank	oil moving through the pipe lines	All of the above are correct.	
15	2110	D	On U.S. inspected ships, oily water separating equipment, bilge alarms, and bilge monitors must be approved under _____.	33 CFR 151	18 CFR 201	46 CFR 41	46 CFR 162	
15	2113	A	If you find that the pressure cartridge on a dry chemical fire extinguisher has been punctured, you must _____.	replace the pressure cartridge	replace the chemical agent	have the unit hydrostatically tested	weigh the pressure cartridge to determine if it must be replaced	
15	2114	B	Free surface effect occurring in tanks should be avoided to _____.	reduce hogging and sagging	maintain stability	prevent oil pollution	all of the above	
15	2116	B	When you hear three short blasts on the ship's whistle and the same signal on the general alarm bells, you _____.	are required to be at your liferaft	are dismissed from drills	should point to the man overboard	should start the fire pump	

15	2118	D	Following an engine room bilge fire, believed to be extinguished, and properly fought using a fixed CO2 fire extinguishing system; the investigating team should reenter the closed space _____.	no sooner than 15 minutes after the fire is believed extinguished	via the lowest access door	via the lowest access door and equipped with SCBAs no sooner than 30 minutes after the fire is believed extinguished	via the highest access door and equipped with SCBAs	
15	2119	B	Fuel tanks should never be filled by cascading liquid through an open hatch or manhole because _____.	excessive fuel vapors will be released	static electricity could be generated by fuel falling through vapor-laden air	spillage of fuel could occur with an open hatch	water contamination of the fuel could occur	
15	2123	B	Which of the following statements is true regarding the device illustrated?	The weight of the charge is equal to the full amount stamped on the unit.	The upper handle (#1) is for operating the valve, the lower handle at the top of the left side of the large cylinder is for carrying.	The lower handle (not numbered) is for operating the valve, the upper handle (#1) is for carrying.	Both answers "A" and "C" are correct.	See illustration number(s): SF-0006
15	2129	A	When petroleum products are handled, static electricity can be generated by _____.	splashing or agitation of the fluids	excessive pressure on the fluids	low temperature fluids only	low viscosity fluids only	
15	2132	C	When fire detecting systems, fire extinguishing systems, and associated equipment are not required by the Coast Guard but are installed on a cargo vessel at the option of the vessel's owner, they _____.	need only to be Coast Guard inspected and/or tested after their initial installation	must be removed from the vessel as the only systems allowed and approved are those listed on the Coast Guard Certificate of Inspection	must be inspected and/or tested in accordance with Coast Guard Regulations at each Inspection for Certification	are exempt from all tests and/or inspections as normally required by a Coast Guard inspector if maintained in a suitable working condition and used only as a back up	
15	2133	B	The unit shown in the illustration is pressurized and operated by _____.	squeezing the spring-loaded nozzle	depressing the puncturing lever and squeezing the nozzle	removing the cartridge guard, lifting the puncturing lever, and squeezing the nozzle	tightening the vent cap and puncturing the cartridge seal	See illustration number(s): SF-0006
15	2139	B	When handling petroleum products, static electricity is generated by moving machinery and _____.	a grounded person	the flowing petroleum liquids	stray electric currents	a short circuit	
15	2142	A	In accordance with Coast Guard Regulations (46 CFR), which of the following power sources would be acceptable for the carbon dioxide warning alarm?	The alarm shall depend on no source of power other than the carbon dioxide.	The ship's general distribution panel.	The emergency lighting and power system via storage batteries or emergency generator.	The general alarm power supply storage battery with a nominal potential of not less than 6 volts.	
15	2143	B	The purpose of piece #3 on the fire extinguisher shown in the illustration, is to _____.	carry the extinguisher	initiate the pressurization of the extinguisher	indicate the state of charge of the extinguisher	hang the extinguisher on a bulkhead	See illustration number(s): SF-0006
15	2149	D	Which of the following methods will reduce the possibility of producing an electrical spark?	Using a cargo hose with a built in electrical bonding wire.	Connecting a bonding wire between the shoreside piping and the vessel.	Placing an insulating flange or a section of nonconducting hose in the hose setup.	All of the above.	
15	2158	C	To initially combat a fire the ventilation to a compartment should be secured to _____.	allow the exhaust fans to remove the smoke	lower the carbon monoxide smothering capabilities	reduce the amount of available oxygen to the fire	protect the fire fighters from smoke	
15	2159	C	An insulating flange should be used in a cargo hose connection instead of a bonding wire _____.	when pumping LNG only	when static electricity may be generated	when the terminal is equipped with a cathodic protection system	during cold weather	



15	2163	A	The state of charge of a stored pressure type dry chemical fire extinguisher can be readily determined by _____.	visual inspection of the pressure gage	weighing the cylinder	removing the lid and checking the level of dry chemical	weighing the CO2 cartridge	
15	2169	C	When fueling, it is important to ground the ship with regard to static electricity. Therefore, you must connect the _____.	fuel hose before the bonding cable	bonding cable only if sparks are seen	bonding cable before the fuel hose has been connected	bonding cable through a ground fault circuit breaker	
15	2173	A	One advantage of a cartridge-operated dry chemical fire extinguisher, over that of a stored pressure dry chemical extinguisher is the former _____.	can be easily recharged aboard ship	has a longer operating time	can be discharged further from the fire	is lighter in weight	
15	2179	A	How can the build up of static electricity be prevented so that a static spark does not ignite flammable vapors?	Each machine and hose involved in the operation should be grounded.	All electrical circuits near and around the fueling operations should be opened.	A dehumidifier used in spaces containing flammable liquids will significantly reduce the possibility of static charges being generated.	Static neutralizers can be used to reduce ionization in the air.	
15	2183	C	The advantage of using a dry chemical fire extinguishing agent is _____.	permanent extinguishment regardless of the reignition sources	its excellent cooling ability	its good stability and nontoxicity	all of the above	
15	2189	A	Bonding cables are used to reduce the possibility of accidental spark discharge when _____.	transferring flammable liquids to or from a vessel	transferring dry mud to or from a vessel	transferring fuel oil from storage to day tanks	securing drill pipe on deck	
15	2193	B	The fire extinguishing equipment shown in the illustration is a large _____.	CO2 hose reel system	dry chemical hose reel system	light water hose reel system	Halon 1301 hose reel system	See illustration number(s): SF-0009
15	2199	A	To minimize the possibility of an explosion caused by the discharge of static electricity, the vessel should _____.	be electrically grounded to shore piping	have its electrical equipment insulated from its structure	have crew members use flashlights rather than AC lamps in vapor filled areas	have crew members use flame safety lamps during entry to areas that may contain explosive fumes	
15	2203	B	The fire extinguisher shown in the illustration requires the use of the puncture lever indicated by piece number _____.		1	3	4	5 See illustration number(s): SF-0006
15	2209	A	The correct method for connecting a grounding or bonding cable is to _____.	open switch, connect ground cable, close switch, and connect cargo hose	connect ground cable, open switch, and connect cargo hose	close switch, connect cargo hose, open switch, and connect ground cable	connect ground cable, connect cargo hose, open switch, and then close switch	
15	2213	C	To operate the dry chemical fire extinguisher shown in the illustration, you must FIRST _____.	operate the squeeze grip valve	invert the extinguisher	depress the puncturing lever	remove the cartridge guard	See illustration number(s): SF-0006
15	2219	B	Where would you expect to find a "charged mist" on a tanker?	In a common vent header during tank ballasting.	In a cargo tank during "Butterworth".	In a cargo tank during inerting operations.	In the overflow line while topping off.	
15	2223	C	Regarding the fire extinguisher shown in the illustration, the small cylinder, labeled as #4, contains _____.	compressed air	nitrogen	carbon dioxide	Halon	See illustration number(s): SF-0006
15	2229	B	An electrically "charged mist" will be found in a _____.	diesel engine cylinder	cargo tank during Butterworth	fuel tank vent outlet	flash evaporator flash chamber	
15	2309	B	Any liquid with a flash point above 80°F is a _____.	flammable liquid	combustible liquid	coal base oil	synthetic base oil	
15	2329	B	According to Coast Guard Regulations (46 CFR), a flammable liquid with a Reid vapor pressure of 8 1/2 psi or less, and a flash point of 80°F or below, is a grade _____.	A	C	D	E	

15	2339	A	Coast Guard Regulations (46 CFR) divide petroleum products into combustible liquids and flammable liquids. Flammable liquids _____.	give off flammable vapors at or below 80°F (26.7°C)	always have a Reid vapor pressure of 14 pounds (6.35 kg) or more	will self-ignite at temperatures below 150°F (65.6°C)	have a flash point of 150°F (65.6°C) or more	
15	2349	A	Any liquid which gives off flammable vapors at or below 80°F, as determined by flash point from an open cup tester, describes a _____.	flammable liquid	combustible liquid	nonflammable liquid	noncombustible liquid	
15	2359	A	A grade "A" petroleum product is _____.	a flammable liquid	a combustible liquid	jet fuel	lubricating oil	
15	2369	D	Bunker "C" is classified as a grade _____.	A liquid	B liquid	D liquid	E liquid	
15	2379	D	Bunker "C", a grade "E" combustible liquid, will _____.	give off flammable vapors below 80°F (26.7°C)	have a Reid vapor pressure of 14 psi (96.5 kPa) or more	self-ignite at temperatures below 150°F (65.5°C)	have a flash point of 150°F (65.5°C) or more	
15	2389	A	A grade "E" combustible liquid is one having a flash point of 150°F or above. An example of a grade "E" product is _____.	Bunker "C"	Gasoline	Naphtha	Butane blend	
15	2399	A	Coast Guard Regulations (46 CFR) classify a liquid having a flash point of 175°F (79.4°C) as a combustible liquid, _____.	Grade "E"	Grade "D"	Grade "C"	Grade "B"	
15	2403	B	Which of the following statements describes the advantage of using a Halon fire extinguisher versus a CO2 fire extinguisher?	Halon cools rather than smothers a fire.	Halon is more effective than CO2.	Halon can extinguish combustible metal fires.	Halon is not toxic and safe to breathe under all conditions.	
15	2404	A	You may improve a vessel's stability by _____.	keeping the fuel tanks topped off	increasing the free surface effect	keeping the fuel tanks at least half full	keeping at least one fuel tank empty for slops	
15	2406	B	In order to find out which lifeboat you are assigned, you should look at the _____.	Certificate of Inspection	Station Bill	Ship's Articles	Fire Control Plan	
15	2409	D	Any combustible liquid having a flash point of 150°F or above is grade _____.	A	B	D	E	
15	2413	B	Which of the following statements is true concerning Halon 1301?	The agent is extremely toxic in any concentration.	The agent leaves no residue.	The agent extinguishes a fire by smothering.	All of the above.	
15	2414	A	What is the usual effect of moving weight from the main deck to a position lower in the vessel?	The stability of the vessel is increased.	The trim of the vessel is changed substantially.	The stability of the vessel is significantly decreased.	The vessel will list in proportion to the volume of the cargo shifted.	
15	2423	B	Which of the following statements is true concerning Halon 1301 fire extinguishing equipment?	The agent is highly toxic at normal room temperature.	For portable extinguishers, the agent is only available in a 2½ pound unit.	Halon extinguishes the fire by smothering action.	The agent can not be used on electrical fires because it leaves a residue.	
15	2424	B	The inclining experiment conducted on a merchant ship is the method for determining the exact location of the _____.	ship's displacement in seawater	position of the ship's center of gravity	position of the ship's center of buoyancy	position of the ship's metacenter	
15	2433	D	Which statement is true concerning Halon 1301 fire extinguishing equipment?	The agent is highly toxic under all conditions.	The agent is less effective than CO2.	Halon extinguishes the fire by smothering.	The agent is a colorless odorless gas.	
15	2434	B	You can generally improve the vessel's stability in a hazardous situation by _____.	pumping double bottoms to the forepeak	ballasting deep tanks	transferring ballast athwartships	deballasting double bottoms	
15	2443	A	Which of the following statements is true concerning Halon 1301 fire extinguishing equipment?	The agent is considered nontoxic at room temperature in low concentrations.	The agent is less effective than carbon dioxide.	Halon primarily extinguishes the fire by cooling.	The agent cannot be used on electrical fires because it leaves a residue.	

15	2444	C	Which of the listed conditions will occur to the ship's center of gravity if 200 tons of steel is transferred to the ship's cargo hold from shore side?	The reserve buoyancy will rise.	The center of gravity will remain in the same position.	The center of gravity will be lowered.	The reserve buoyancy will remain the same.	
15	2453	C	Which of the listed effects will occur when an operating diesel engine ingests Halon 1301?	The high engine combustion temperatures liquefy the Halon.	The engine absorbs the Halon into its cooling system.	The engine decomposes the ingested Halon.	The engine will stall regardless of how little Halon has been taken in through the air intake.	
15	2454	D	If a vessel rolls to the starboard side, and there are no movable or moving weights onboard, the center of gravity will _____.	move to port	move to starboard	move directly down	stay in the same position	
15	2464	D	If additional weight is placed on the main deck of the vessel shown in the illustration _____.	K will rise	KB will go down	GM will increase	G will rise	See illustration number(s): SF-0023
15	2474	A	If weight is added at the keel, the ship's center of gravity will _____.	move down	move up	merge with the metacenter	pass through the center of flotation	
15	2484	D	If weight is added at "K" to the ship shown in the illustration, _____.	"B" will go down	"G" will rise	"GM" will decrease	"G" will go down	See illustration number(s): SF-0023
15	2494	A	A vessel's stability normally increases when tanks are ballasted because the vessel's _____.	center of gravity is lowered	center of buoyancy is lowered	reserve buoyancy is increased	freeboard is increased	
15	2501	A	In the event of a collision, watertight integrity may be lost if _____.	the sounding tube cap from a damaged tank is missing	the dogs on a manhole cover are secure	you have recently replaced a gasket in a watertight door	you operate the dewatering system from a flooded compartment	
15	2504	B	A vessel's center of gravity is lowered when the _____.	freeboard is increased	tanks are ballasted	reserve buoyancy increases	trim is increased	
15	2505	D	Each vessel in ocean and coastwise service must have an approved EPIRB. An EPIRB _____.	must be stowed in a manner so that it will float free if the vessel sinks	must be stowed where it is readily accessible for testing and use	is a device that transmits a radio signal	all of the above	
15	2509	C	Where in the Code of Federal Regulations will you find information about the compatibility of cargoes?	Title 46 Subchapter D	Title 46 Subchapter N	Title 46 Subchapter O	Title 33 Subchapter O	
15	2514	A	The stability of a vessel is normally the greatest when all fuel and water tanks are full because the _____.	center of gravity is lowered	center of buoyancy is lowered	reserve buoyancy is unchanged	hull freeboard is increased	
15	2515	D	If you have to abandon ship, the EPIRB can be used to _____.	hold the lifeboat's head up into the seas	generate orange smoke	seal leaks in rubber rafts	send radio homing signals to searching aircraft	
15	2519	C	When checking the liquid level in a tank, you should position yourself _____.	on the windward side of the opening	on the leeward side of the opening	at a right angle to the wind direction	so that the obstruction of your body will protect you from the fumes	
15	2524	B	Many uninspected motor vessels require load lines. For the purpose of the Load Line Regulations, the term "surveyor" means _____.	an officer of the Coast Guard designated by the Commandant to command all Coast Guard activities within his district	any person designated by the American Bureau of Shipping who actually examines the vessel	any person from the Coast Guard who is in charge of a marine inspection zone	any person from the Coast Guard who performs duties with respect to the inspection, enforcement, and administration of Title 52 of the revised statute	
15	2553	C	Which fire extinguisher is most prone to freezing when stowed in low temperatures?	Halon 1211	Carbon dioxide	Foam	Dry chemical	
15	2606	B	If deck cargo is carried, it should be stowed so that it _____.	is now higher than 12 inches above the deck	does not block access to the fire station hydrant	will cover no more than 25 percent of deck space	will be easily visible from the bridge	

15	2703	D	To operate a carbon dioxide extinguisher having the type of head shown in the illustration, you would _____.	open valve, pull pin, and pull up on release lever	pull pin, open valve, and pull up on release lever	open valve and pull pin	pull pin and open valve	See illustration number(s): SF-0008
15	2705	C	What is a major advantage of the demand-type self-contained breathing apparatus?	The equipment is lightweight and the wearer can work without difficulty in confined spaces.	The average operating time is over an hour.	The speed with which it can be put into operation is around 45 seconds.	The regulator is designed to provide the user with quick adjustments to the air supply by a knob located near the high pressure hose connection.	
15	2713	C	To operate a CO2 fire extinguisher equipped with a squeeze grip handle, you are to remove the locking pin and _____.	raise the lower grip	invert the extinguisher	depress the upper grip	rotate the cutter disc valve wheel	
15	2715	A	The bypass valve on a self-contained, demand-type, breathing apparatus bypasses _____.	the regulator in an emergency	a breathing bag containing excessive pressure	oxygen to the atmosphere	the regenerator in an emergency	
15	2723	B	To use a portable CO2 fire extinguisher, you must FIRST _____.	turn the tank upside down	pull the locking pin	open the valve on the side of the tank	shake thoroughly	
15	2725	A	Prior to entering a compartment containing an atmosphere potentially dangerous to life or health, you should don an approved self-contained breathing apparatus. Which one of the listed devices is a self-contained breathing apparatus?	A demand-type breathing apparatus	A fresh-air breathing apparatus	A canister-type gas mask	All of the above	
15	2733	D	A safety "ring pin" is usually inserted in the handle of a CO2 fire extinguisher to prevent _____.	the cylinder valve from coming loose	the handle from contacting the cylinder	contamination of the valve parts	accidental discharge from the extinguisher	
15	2743	B	Annual servicing of a hand portable CO2 fire extinguisher includes _____.	inspecting the pressure gauge to ensure the needle is within operating range	weighing the cylinder and recharging if weight loss exceeds 10% of the weight of the charge	hydrostatic testing of the cylinder	discharging, cleaning inside, and recharging	
15	2745	C	While donning the demand-type self-contained breathing apparatus, you discover that the air cylinder pressure gage and the regulator pressure gage differ from each other by 500 psi. Which of the listed action should you consider as appropriate?	Replace the defective gauges with a new pair from the spare parts inventory.	Replace the air cylinder with a full spare cylinder.	Assume that the lower reading is correct.	Take the average of the two gauges as the correct pressure.	
15	2755	C	Which of the components listed are interchangeable between different backpack demand-type self-contained breathing apparatus produced by various manufacturers?	The facepiece	The regulator	The air cylinder	All of the above	
15	2763	B	Which of the listed fire extinguishers cannot be easily recharged aboard ship?	Soda acid	Carbon dioxide	Dry chemical, cartridge-operated	Foam	
15	2765	B	The pressure gages on the air cylinder and the regulator should be checked before putting on a demand-type self-contained breathing apparatus. Which of the following is the maximum acceptable differential readings permitted to exist between the two gages?	100 PSI	200 PSI	300 PSI	400 PSI	
15	2771	A	The knife edges and gaskets of watertight doors should be _____.	clean and uncoated	lightly coated with tallow	coated with petroleum jelly	painted to prevent weathering	
15	2773	D	A carbon dioxide fire extinguisher has been partially discharged, and should be immediately _____.	tagged and restowed properly in its rack	weighed and the charge loss recorded	given to the chief engineer for recharging	tagged "empty" and stowed separately from charged extinguishers	

15	2781	A	Which of the following statements describes the correct procedure for closing a watertight door?	Loosely set up one dog on the opposite side from the hinges, snugly set up two dogs on the hinge side, then evenly set up all the remaining dogs.	Loosely set up two dogs adjacent to the hinges, snugly set up one dog on the opposite side from the hinges, then evenly set up all the remaining dogs.	Snugly set up two dogs on the opposite side from the hinges, then evenly set up all the remaining dogs.	Loosely set up one dog on the hinge side, snugly set up two dogs on the opposite side from the hinges, then evenly set up all the remaining dogs.	
15	2783	A	If the empty weight of a B-II, portable, CO2, fire extinguisher bottle is 34 pounds (15.4 kg), the cylinder must be recharged if the gross weight decreases to _____.	47 lbs (21.3 kg)	48 lbs (21.8 kg)	49 lbs (22.2 kg)	50 lbs (22.4 kg)	
15	2803	D	Which of the fire extinguishers listed is to be weighed annually and sent ashore for recharging if the weight loss exceeds 10% of the weight of a full charge?	Foam	Soda acid	Dry chemical	Carbon dioxide	
15	2805	D	The safe and efficient use of the facepiece of a demand-type self-contained breathing apparatus is directly influenced by _____.	the donning of the facepiece	the stowing of the facepiece	the maintenance of the facepiece	all of the above	
15	2806	A	Before the seas get rough, it is a good safety practice to _____.	secure loose gear	move quickly about the ship	increase lighting	shutdown auxiliary equipment	
15	2814	B	Many uninspected vessels require load lines to indicate the maximum _____.	reserve buoyancy under any condition	amidship's draft to which a vessel can be lawfully submerged	angle of reduced freeboard for subdivision calculations	freeboard for the light ship displacement	
15	2815	D	While wearing a demand-type self-contained breathing apparatus the alarm bell begins ringing. Which of the following conditions does this indicate?	There is a 4-5 minute supply of air remaining in the air cylinder.	There is approximately 500 psi (3.5 MPa) of pressure left in the air cylinder.	The wearer should immediately leave the contaminated area.	All of the above.	
15	2816	B	You are replacing a section of heavy piping on deck and using a chain fall to lift the pipe. Which of the following precautions should be taken to prevent personal injury?	Position several men under the pipe so they can catch it if it falls.	Attach lines to the ends of the pipe and have your helpers steady the load.	Place an old mattress under the hoist to prevent the load from hitting the deck.	Have a first aid kit at the job site.	
15	2823	D	Portable carbon dioxide fire extinguishers must be recharged _____.	when the remaining charge volume is less than 90% of the required volume	at each biennial inspection	at each annual inspection	when the remaining charge weight is 10% less than the required weight	
15	2824	D	With regards to the load line marks, the reason for the placement of mark "WNA" is _____.	more severe weather is expected in the North Atlantic in winter	more freeboard is required in the North Atlantic in winter	less draft is allowed in the North Atlantic in winter	all of the above	
15	2825	A	When the alarm bell on a demand-type breathing apparatus sounds, how much air supply remains?	A 4-5 minute supply of air.	A 2-3 minute supply of air.	A 1 minute supply of air.	Less than 1 minute supply of air.	
15	2835	A	Which of the following conditions represents a particular advantage of using a pressure demand type self-contained breathing apparatus in an atmosphere that is immediately dangerous to life or health?	The positive pressure in the facepiece prevents contaminated air from entering the facepiece.	The average operating time for most air cylinders is over an hour.	The equipment used is lightweight and easy to wear by reducing physical strain on the wearer.	The equipment is compact and the wearer can work in confined spaces without difficulty.	
15	2873	C	When is it required for carbon dioxide fire extinguishers to be recharged?	At least once each year.	Each time the vessel drydocks.	When the charged weight decreases by 10%.	When the trigger seal has been broken.	
15	3001	D	A flat block placed under the end of a shore for the purpose of distributing pressure is referred to as a _____.	strong back	butt piece	shore foot	shole	

15	3004	D	A vessel which has been holed as shown in the illustration, will probably _____.	flood until a state of equilibrium is reached	reduce transverse stability	result in a loss of reserve buoyancy	all of the above	See illustration number(s): SF-0005
15	3008	D	To order new fire hose with the correct coupling thread, you should specify _____.	American Standard	Acme Standard	National Fine	National Standard	
15	3014	C	Water pressure on the hull of a ship is greatest at the _____.	bow	stern	keel	boot topping	
15	3018	D	According to Coast Guard Regulations (46 CFR), the type of fire hose coupling threads required for vessel fire equipment, on or after July 1, 1954, shall be _____.	ABS standard	U.L. standard	American standard	National standard	
15	3021	B	After measuring the length to which a section of shoring should be cut, you should cut the shoring _____.	approximately 1/2 inch longer than measured length to allow for trimming	approximately 1/2 inch shorter than measured length to allow for the use of wedges	to the same length as the measured length	approximately 1/2 inch shorter per foot of shoring to allow wet expansion	
15	3031	A	Which of the methods shown in the illustration is the correct way to fit shoring?	A	B	C	D	See illustration number(s): SF-0016
15	3038	A	Which of the following statements is true concerning fire hose stations used in the engine room of a tank or cargo vessel?	It must be marked in red letters two inches high	National Standard fire hose coupling threads shall be used having 9 threads per inch for 2 1/2 inch hose and 7 1/2 threads per inch for 1 1/2 inch hose.	In heavy weather, the hose may be removed temporarily from the hydrant.	All of the above.	
15	3041	D	Wooden shoring is used in shipboard damage control to _____.	force a warped bulkhead back into its normal position	prevent fractures from spreading	force a sprung bulkhead back into place	support a damaged bulkhead in position	
15	3048	C	Which of the following statements is correct concerning fire hoses used within the machinery spaces of cargo vessels?	The fire hoses must be in 75 foot lengths.	The fire hoses must be 1 1/2 inches in diameter or less.	The fire hoses must be of the lined type.	The fire hoses must all be fitted with approved 5/8 inch nozzles.	
15	3051	C	The wooden shoring shown in the illustration is bearing against the hatch coaming and is supporting a load in the direction indicated by the arrows. Which of the following statements is correct for the this condition?	Shore "A" will support the greatest load.	Shore "A" will not slip under load.	Shore "B" will support the load without it cracking.	Shore "B" will crack at the pointed end.	See illustration number(s): SF-0018
15	3061	A	The wooden shoring, shown in the illustration, is bearing against a hatch coaming. The load is applied in the direction indicated by the arrows. Which of the following statements is true?	Shore "B" will support the greatest load.	Shore "A" illustrates the recommended method of shoring.	Shore "A" will support the greatest load.	Shore "B" will slip under applied load.	See illustration number(s): SF-0018
15	3109	A	Special transportation hazards of bulk LPG include _____.	frost burns to flesh	high toxicity in small quantities	noxious odors	all of the above	
15	3158	B	If a fixed fire extinguishing system is installed on any vessel, it must be of a type approved by the _____.	National Fire Protection Association	U.S. Coast Guard	American Bureau of Shipping	Marine Fire Protection Guild	
15	3208	D	According to U.S. Coast Guard Regulations (46 CFR), which of the following statements concerning fire main shore connections for a 20,000 gross ton cargo vessel on an international voyage is correct?	There must be at least one shore connection to the fire main system on each side of the vessel.	Shore connections must be in an accessible location and fitted with cutoff and check valves.	There must be at least one portable international shore connection available to each side of the vessel.	All of the above.	
15	3209	A	To prevent overpressurization when loading liquid petroleum products, cargo tanks should be fitted with a/an _____.	pressure-vacuum valve	ullage opening	overpressurization valve	equalizing line	

15	3218	A	Fire main shore connections on a 1,000 gross ton cargo vessel are required by Coast Guard Regulations (46 CFR) to be provided with _____.	suitable adapters to mate shore fire line couplings	at least two international shore connections	connections for 2 1/2 inch fire hose only	"Y" connections for 1 1/2 inch fire hose only	
15	3228	A	According to Coast Guard regulations (46 CFR), a fire door that is held open by magnets may be found in the _____.	stairway enclosure	wheelhouse	engineroom	All of the above	
15	3229	D	Pressure-vacuum relief valves on tank vessel cargo tanks should be kept in good working order to prevent _____.	escape of explosive vapors	oil spillage on deck	entry of burning substances	damage to tank boundaries	
15	3249	A	According to Coast Guard Regulations (46 CFR), which of the following conditions is true concerning the construction and/or operation of pressure-vacuum relief valves?	Valve bodies, discs, spindles, and seats must all be made of bronze or a corrosion resistant material.	Pressure-vacuum valves for cargo tanks shall not be less than 2 inches nominal pipe size.	Where springs are employed to actuate the valve discs, the springs are to be either plated or fabricated of a corrosion resistant material.	The design and construction of the valves is such that they must be removed for overhauling, insuring there will be no vent blockage which could occur during a repair period.	
15	3258	B	Fire main outlet valves or hydrants located on exposed decks shall be _____.	behind glass or a suitably marked enclosure	protected against freezing or be fitted with cutout valves and drain valves	opened up and internally examined at each Coast Guard biannual inspection for certification	all of the above	
15	3259	D	Which of the following pressures represents the normal pressure setting of a pressure-vacuum relief valve?	22.7 psia - 14.7 psia	20.7 psia - 14.6 psia	18.7 psia - 14.4 psia	16.7 psia - 14.2 psia	
15	3268	C	Fire doors are released by a/an _____.	hydraulic directional valve that automatically releases the door in the event of a disruption to the control power system	spring-loaded catch that automatically lifts to release the door in the event of the presence of a fire	method that automatically releases the door in the event of a disruption of control system power	pneumatic heat sensor	
15	3289	C	Which of the precautions listed should be observed when taking on diesel fuel?	Secure all lighting to the main deck.	Provide a portable fan to blow away fumes.	Prohibit smoking in the area.	Display a black triangle during daylight hours.	
15	3309	D	After ballasting a fuel tank, which of the listed valves should you close FIRST?	Tank manifold filling valve	Pump discharge valve	Deck filling valve	Sea suction valve	
15	3318	D	According to Coast Guard Regulations (46 CFR), portable and semi-portable fire extinguishers are classified by a letter and numeric designator. The letter designation indicates _____.	whether this type of extinguisher is to be used on deck or in machinery spaces	the size of the extinguisher	the type of extinguishing agent	the type of fire the unit could be expected to extinguish	
15	3319	B	When you have completed bunkering operations, the hoses should be _____.	blown down with inert gas	drained into drip pans or tanks	stowed with their ends open for venting	steam cleaned and flushed with hot water	
15	3329	A	A vessel over 100 gross tons serving in the coastwise trade and wishing to deballast its fuel tanks to a port facility must have a _____.	special outlet or adapter fitted to the discharge outlet(s) on the weather deck	deballasting pump which is separate and independent of the ballast pump	stop-check valve located at the pump discharge	all of the above	
15	3339	D	When should you expect to find an insulating flange in a fueling hose?	When transferring LNG.	When a bonding cable is employed.	When static electricity is not expected to be a problem.	When the terminal is equipped with a cathodic protection system.	
15	3349	D	To avoid excessive pressures in the fuel oil filling system during bunkering, you should _____.	close the tank filling valves quickly	top off all tanks at the same time	fill completely all tanks to less than 95% full	reduce the loading rate when topping off	

15	3358	A	Coast Guard Regulations (46 CFR) state that where reasonable and practicable, the steam pressure in a steam smothering system should be at least _____.	100 psi	125 psi	150 psi	equal to one-half boiler working pressure	
15	3359	C	To determine if all requirements of the Declaration of Inspection are met for oil transfer operations just prior to bunkering from a shoreside facility, _____.	vessel and facility are independently inspected by their respective designated person-in-charge	facility is inspected by the designated person-in-charge of the vessel and vice versa for the vessel	vessel and facility are jointly and independently inspected by the designated persons-in-charge	vessel and facility must be inspected by a representative of the Coast Guard Captain of the Port	
15	3369	D	For all loading operations, the terminal must supply the vessel with a means in which the vessel's designated person-in-charge may stop the flow of oil to the vessel, insuring immediate shutdown in the event of a hose rupture, tank overflow, etc. This means of control may be activated _____.	electrically	pneumatically or mechanically	via a communications device used for no other purpose	All of the above.	
15	3389	C	During fueling operations oil is detected in the water adjacent to your vessel. If however, it is determined to be from some source other than your vessel, you should _____.	secure operations until the exact type of oil is determined	make an entry in the oil record book to that effect	notify the Coast Guard	All of the above	
15	3408	C	Coast Guard Regulations (46 CFR) require each machinery space fire hose to be equipped with an approved combination nozzle and applicator. The maximum allowable length of the applicator _____.	may not exceed 4 feet in length	may not exceed 5 feet in length	must be less than 6 feet in length	may be greater than 6 feet in length when demonstrated to OCM that the applicator will not interfere with the placement of the machinery	
15	3409	C	The term "load on top" is used on many crude oil carriers, is to provide a method for _____.	calculating the ullage in the cargo tanks	loading ballast by gravity	the loading of new cargo into the slop tank as a procedure to minimize pollution	calculating the ratio of cargo expansion in a cargo tank	
15	3418	B	Coast Guard Regulations (46 CFR) require that low velocity fog spray applicators be provided for the combination hose nozzles in the machinery spaces of tank vessels. How many applicators are required to be maintained in the machinery spaces of these vessels?	1	2	3	4	
15	3419	B	Which of the following operations must be personally supervised by the person-in-charge when taking on fuel?	Posting of the Declaration of Inspection in a conspicuous place under glass.	Topping off any tanks being loaded.	Overboard disposal of all waste oil or slops from drip pans.	Sampling performed periodically during loading to ensure uniformity.	
15	3429	C	While loading bulk liquid cargo, a tank valve jams open. You should FIRST _____.	unplug the deck scuppers	run out the vessel's fire hose	order the shore facility to shut down	call the chief engineer	
15	3439	A	Prior to loading or discharging bulk cargo, all sea valves should be _____.	secured and lashed	secured and locked	opened and lashed	opened and locked	
15	3449	C	Line displacement at a fuel terminal is a change of _____.	fuel lines at the terminal before loading	product before starting loading	product during the final phase of loading	product after the final discharge	
15	3459	D	If a leak in an oil hose coupling cannot be stopped by tightening the coupling bolts, you should _____.	notify the Coast Guard of a potential pollution incident	reduce the pumping pressure to reduce the leakage rate	spread absorbent material on deck beneath the leak	stop transfer operations and renew the gasket	
15	3468	D	Coast Guard Regulations (46 CFR) require fire hydrants to be located in the propulsion machinery spaces containing oil fired boilers. In addition, vessels of 1,000 gross tons and over are to be equipped with a _____.	straight through nozzle	12 foot low velocity fog applicator	100 foot length of lined fire hose	coupling spanner wrench	



15	3469	A	If you are loading a low temperature petroleum cargo you must insure that _____.	there is room for expansion	the vents are sealed	vapor baffles are installed	all of the above	
15	3478	B	According to Coast Guard Regulations (46 CFR), fire main cut out valves shall be sealed open at all times except when the _____.	fire main is in actual use	fire main is drained in freezing weather	fire pump is secured	fire main is being used for washdown purposes	
15	3479	D	One consideration for determining the safest maximum rate at which bunker fuel may be received is by the _____.	type of fuel transfer pump	size of the fuel storage tanks ashore	distance to the fuel storage tanks ashore	number of tanks to be filled	
15	3488	A	A fire station located in the engine room, is required by regulations to have _____.	a spanner wrench suitable for the size of hose at that station	lined or unlined hose, depending upon its location	a 6 foot or 10 foot low velocity fog applicator	all of the above	
15	3489	B	The safe rate of bunkering heavy fuel oil is directly related to the _____.	type of fuel transfer pump aboard	temperature of the fuel oil being received	size of the fuel storage tanks ashore	distance from the fuel oil storage tanks ashore	
15	3498	D	According to Coast Guard Regulations (46 CFR), each fire hydrant must have at least _____.	one length of fire hose	a spanner wrench	a hose rack or other device for stowing hose	all of the above	
15	3501	B	When opening a watertight door to check a compartment suspected of flooding, which of the dogs shown in the illustration should you backoff FIRST?		1	2	3	4 See illustration number(s): SF-0019
15	3506	B	One precaution to take prior to working in a freshly painted compartment where there are an excessive amount of paint fumes, is to _____.	take shallow breaths of air	ventilate the area	wear a breathing apparatus while working	keep a charged fire hose handy	
15	3508	D	Fire main outlet valves, or hydrants shall be installed _____.	in screened enclosures in all passageways	where they are protected from the weather	in a protected location to prevent cargo damage	pointing downward or horizontal to prevent kinking of the fire hose	
15	3511	C	Your ship has run aground and it is necessary to determine whether or not a compartment has flooded. Therefore, you should _____.	open the watertight door and take a quick look	open the hatch dogs on the side away from the hinges	tap the bulkhead with a hammer to check for a water level	feel the bulkhead to see if it is hot	
15	3521	C	After an emergency shoring installation has been completed, the _____.	repair is completed and no further action is needed	timbers are nailed in place to prevent looseness	shoring should be frequently inspected for looseness	damaged plating should be straightened by heating	
15	3531	A	In a compartment that has been completely flooded, the greatest pressure will be exerted _____.	along the bottom of any bulkhead	at the center of all bulkheads	along the top of any bulkhead	on the overhead of the compartment	
15	3568	D	According to Coast Guard Regulations (46 CFR), which of the firefighting devices listed is not permitted for use in the engine room?	Any rubber lined hose	Semi-portable CO2 fire extinguishers	All high velocity fog applicators	All smooth bore firefighting nozzles	
15	3608	A	Which of the following statements is true concerning fire pumps used aboard cargo vessels of 1,500 gross tons and over, contracted for on, or after May 26, 1965?	The fire pumps may be used for other purposes provided at least one of the pumps is kept available for use on the fire main system at all times.	Fire pumps shall have a minimum capacity of at least one-third of that required for an independent bilge pump.	Each pump shall be capable of delivering water simultaneously from the two highest outlets at a pilot tube pressure of approximately 25 psi.	The total area of the pipes leading from a pump shall be less than the discharge area of the pump.	
15	3609	D	When water washing epoxy-coated cargo tanks, the temperature and pressure of the wash water should generally not exceed _____.	212,F - 940 psi	180,F - 180 psi	160,F - 180 psi	120,F - 120 psi	
15	3618	A	According to Coast Guard Regulations (46 CFR), on a freight vessel, each fire pump must be capable of supplying the two highest outlets simultaneously, at a Pitot tube pressure of _____.	50 psi	75 psi	125 psi	the pump relief valve setting	

15	3619	B	When using portable tank cleaning machines, the hoses may be disconnected when _____.	the machine is inside the tank	the machine is not inside the tank	a sailor is standing by the machine	the hose has been partially drained	
15	3638	A	Which of the following statements is correct concerning fire main system details used aboard 2500 gross ton cargo vessels on international voyages?	The vessel must be equipped with a minimum of two independently driven fire pumps.	Fifty foot length hoses of 1 1/2 inch diameter may be used in exterior locations on the vessel.	The total area of the pipes leading from a fire pump must be more than the discharge area of the pump to avoid an excessive back pressure buildup (discharge head).	All of the above.	
15	3659	C	A gurgling noise is heard from within a cargo tank when discharging cargo, this would indicate that the _____.	tank liquid is too viscous	pump discharge pressure is excessive	pump is sucking air	tank foot valve is partially clogged	
15	3669	D	Which of the listed pumping arrangements will be hazardous when two similar centrifugal pumps are used to discharge a cargo of flammable liquid?	Both pumps operating at the same speed and discharging into a common line.	Both pumps operating at the same speed and taking suction from a common line.	Each pump operating at a different speed and taking suction from a common line.	Each pump operating at a different pressure and discharging into a common line.	
15	3678	D	When the machinery spaces on a cargo vessel are protected by a fixed foam extinguishing system, what additional protection is required by Coast Guard Regulations (46 CFR) outside of the machinery space entrance?	One portable foam extinguisher	Ten cubic feet of sand of with scoop	One semi-portable CO2 extinguisher	Two fire hydrants with hose, nozzle, etc.	
15	3689	A	If flammable liquids are being pumped with a centrifugal pump, you should _____.	stop the pump immediately if it becomes vapor bound	throttle the discharge valve to assure positive pumping	vent the pump casing continuously to expel vapors	gag relief valves to prevent recirculating and heating of the liquid	
15	3698	A	If a fixed foam system is activated aboard a tank vessel, constructed in 1968, you can expect the foam supply to last for a minimum of _____.	3 minutes	7 minutes	12 minutes	15 minutes	
15	3699	D	When preparing to pump flammable liquids with a centrifugal pump, you should _____.	lift the relief valve by hand to check its operation	draw a small quantity of liquid to prime the pump	have a standby pump running with the discharge valve closed	check for gland leakage and any fire hazard	
15	3708	A	Coast Guard Regulations (46 CFR), require a fixed foam extinguishing system on cargo and miscellaneous vessels to meet which of the following requirements?	The supply of foam producing materials must be sufficient to operate the equipment for at least 3 minutes for spaces other than tanks.	The deck foam system must be completely independent of the fixed foam system.	The foam producing chemicals must be discharged and recharged every year at annual inspection.	The foam producing chemicals must be discharged and recharged every 2 years at the annual inspection.	
15	3729	D	After taking on fuel oil, the hoses should be disconnected and _____.	draped over the fantail to dry out	drained over the side and washed out	drained into the bilges and washed out	drained into buckets or fuel tanks	
15	3739	C	After transferring fuel to another vessel, hoses should be drained _____.	to the bilges	over the side	into a bucket	all of the above	
15	3749	B	Which of the listed cargo hoses presents the greatest resistance to collapsing when operated under vacuum?	Lightweight cargo hose	Rough bore cargo hose	Smooth bore cargo hose	All of the above	
15	3758	C	If your vessel is to carry ten portable foam fire extinguishers, you must maintain a supply of at least _____.	one spare extinguisher	one spare charge	five spare charges	ten spare charges	
15	3778	D	A portable foam fire extinguisher carried aboard a tank vessel must be recharged every _____.	3 months	6 months	9 months	12 months	

15	3788	D	At what interval must a foam fire extinguisher be recharged if the vessel's Certificate of Inspection is issued for a period of two years?	Quarterly	Semiannually	Biennially	Annually	
15	3799	D	Tankers carrying cryogenic cargoes, such as LNG, are fitted with gas detector systems alarmed at 30% of the lower explosive limit. If the gas detector alarms sounds, this means _____.	the detector sensor is sampling a space where the cargo vapor concentration is 30 percent by volume	an explosion is about to take place	the detector is sampling a space in which 30 percent of the atmosphere is explosive	a flammable vapor concentration exists at the sample point, but it is too lean to burn	
15	3809	D	An LNG carrier has an approved type of gas detecting system to detect methane leaks in the _____.	barrier spaces	cargo handling rooms	boiler burner supply piping	all of the above	
15	3819	B	Span gas is used aboard liquefied natural gas carriers to _____.	inert the barrier spaces	calibrate the gas leak detectors	odorize the cargo	detect leaks in cargo piping	
15	3859	B	To prevent the overflow of cargo tanks due to expansion, you should top off _____.	to the bottom of the expansion trunk	to within 1% to 3% of its capacity	to within 1 to 3 inches of its capacity	1 to 3 inches from top of the vent pipe	
15	3868	D	In order to release CO2 to the machinery spaces from a fixed fire extinguishing system, you must _____.	actuate an alarm and open the engine room control valve	actuate an alarm and open the engine room CO2 releasing valve	open the engine room control valve and shut off engine room ventilation fans	open the engine room control valve and then the CO2 releasing valve	
15	3869	C	Why is it important for fuel oil tanks not to be topped off at the inner bottom level when loading on a cold day?	Increased viscosity of the product needs higher loading pressure, which increases the chances of a spill.	Air pockets may cause the fuel to bubble out of the ullage hole.	The temperature rise of the fuel will cause an overflow.	Fueling valve may become stuck closed and cause the fuel oil to spill before the valve can be opened.	
15	3878	B	Which of the following statements describes how the main bank of CO2 bottles is released into an engine room from most fixed CO2 fire extinguishing systems?	Manually releasing the bottles in groups of four.	CO2 pressure from the pilot cylinders.	Steel wire trigger lines provided to all bottles in the main bank.	Remote pull cables provided to each group of four bottles in the main bank.	
15	3879	D	During fueling operations, which of the listed precautions should be taken when topping off fuel tanks?	Reduce the pumping rate by closing the deck filling valve.	Close all overflow valves.	Place 5 gallon containers under all flange connections in the fuel line.	Reduce the pumping rate and sound tanks frequently as the level rises.	
15	3889	B	The most critical part of the bunkering operations, which can result in an oil spill, is when the _____.	hose joints are made up	tanks are being topped off	system is being lined up	pumping operation is first started	
15	3899	C	After fuel tanks have been topped off, which of the listed procedures should be followed next?	The pressure-vacuum relief valve should be reset.	The tanks should be made seaworthy to prevent contamination.	The tanks should be sounded to make sure the levels are not rising.	The tanks should be marked with a bull stamp on the manifold filling valve.	
15	3909	D	If the overflow tank high-level alarm sounds while the fuel oil tanks are being topped off, the engineer should _____.	close the static leg filling valve	close the overflow tank filling valve	reduce the fuel oil pumping rate	stop the fuel oil pumping operation	
15	3919	A	To avoid shock pressures in the fuel oil filling hoses while you are topping off tanks, the _____.	loading rate should be decreased	oiler should sound all tanks continuously	hoses should be looped	tank vent valves should be clear	
15	3929	C	When a fuel oil tank is being topped off during bunkering operations, the tank valve should be closed _____.	slowly to prevent surge stresses	to prevent gas from escaping through the pressure-vacuum relief valves	after the shore pumps are stopped	rapidly to prevent overflow	
15	3939	C	The amount of expansion space to be left in a fuel tank when fuel oil is being received, is determined by the _____.	quantity of fuel to be received	flash point of the fuel as it is received	fuel temperature as it is received	viscosity of the fuel being received	

15	3958	D	According to Coast Guard Regulations (46 CFR), which of the following statements is true concerning fixed carbon dioxide fire extinguishing systems?	The space containing the cylinders shall be properly ventilated and designed to preclude an ambient temperature in excess of 100°F (37.78°C)	The cylinders which are fitted with flexible or bent siphon tubes may be inclined not more than 30° from the vertical.	All cylinders used for storing carbon dioxide shall be fabricated, tested, and marked in accordance with the applicable section of the American Welding Society code.	The cylinders may be located within the space protected provided the system consists of not more than 300 pounds (136.1 kg) of carbon dioxide.	
15	3968	B	Coast Guard Regulations (46 CFR) for carbon dioxide fixed fire extinguishing systems require _____.	a separate supply of CO2 be provided for each space protected	the total supply of CO2 to be at least sufficient for the space requiring the greatest amount	the total supply of CO2 be equal to the gross tonnage of the vessel divided by 30	all of the above	
15	3978	A	Coast Guard Regulations (46 CFR) state that any space containing charged CO2 cylinders, shall be properly ventilated to prevent a temperature higher than _____.	130°F (54.5°C)	140°F (60.0°C)	150°F (66.6°C)	160°F (71.1°C)	
15	3988	D	According to Coast Guard Regulations (46 CFR), the piping, valves, and fittings for a fixed CO2 fire extinguishing system shall have a bursting pressure of not less than _____.	2000 psi (13.8 MPa)	2800 psi (19.3 MPa)	4000 psi (27.5 MPa)	6000 psi (41.1 MPa)	
15	3998	D	A cylinder used for storing CO2 in a fixed firefighting system, must be hydrostatically retested and restamped every _____.	once in every calendar year	5 years	8 years	12 years	
15	4000	A	The Pollution Prevention Regulations (33 CFR) requires an emergency means of stopping the flow of oil during oil transfer operations. The emergency means must be operable from the _____.	usual operating station of the person-in-charge	bridge	engine room	emergency operating station of the person-in-charge	
15	4001	A	A cargo pump driven by an internal combustion engine on the weather deck must have _____.	one remote manual shutdown station	two remote manual shutdown stations located fore and aft	three remote manual shutdown stations located fore, aft, and at the midpoint	four remote manual shutdown stations located fore, aft, port side midpoint, and starboard side midpoint	
15	4002	D	A hole in the hull above the waterline may be temporarily patched with _____.	pillows	blankets	mattresses	All of the above.	
15	4008	B	Which of the following statements is correct concerning fixed carbon dioxide fire extinguishing systems?	A separate supply of carbon dioxide must be provided for each space protected.	The piping shall be used for no other purpose except that it may be incorporated with the fire-detecting system.	Distribution piping within the space shall be proportioned from the supply line to give the proper throttling to the outlets.	All of the above.	
15	4009	A	According to Coast Guard Regulations (46 CFR), when loading, or discharging oil in bulk at a dock, which of the following signals must be displayed?	A red flag (day), red light (night)	A yellow flag (day), red light (night)	A green flag (day), green light (night)	A signal is not required for discharging oil, only gasoline	
15	4010	C	When a tank vessel with a capacity of 250 barrels is transferring oil to a facility, the Pollution Prevention Regulations (33 CFR), require an emergency means to stopping the flow of oil which must be operable from _____.	two or more locations on the tank vessel	a remote location of equal distance from the tank vessel and facility	the usual operating station of the person in charge of the oil transfer	the engine room, cargo control room and bridge sequentially	
15	4012	D	In an emergency, a hole in the hull below the waterline, not over three inches in diameter, can be temporarily sealed by _____.	welding over a plate patch	stuffing a mattress in the hole	rigging a collision mat	using a soft wooden plug	

15	4018	C	When a cylinder is used to store CO2 in a fixed firefighting system and is retested in accordance with regulations, all flexible connections between cylinders and distribution piping must be renewed or tested at _____.	2750 psi	1500 psi	1000 psi	300 psi	
15	4020	C	According to Pollution Prevention Regulations (33 CFR), tank vessels are required to have a means of emergency shutdown. This device _____.	shuts off the main propulsion plant	shuts off the firefighting foam systems	stops the flow of oil to shore facility or other vessel	secures electrical power to all motors	
15	4021	D	Fuel containers used for refueling portable gasoline driven pumps and exceeding a capacity of five gallons, should be stowed _____.	in the pumproom	in the engine room	in the paint locker	on or above the weather deck in locations designated by the master	
15	4022	A	It is generally not advisable to drive a wedge into a crack occurring in the hull because wedges _____.	tend to open the crack	will work loose	will splinter	will pull through the plating	
15	4029	A	Which of the signals listed is required to be displayed during the day while loading fuel?	A red flag	A yellow flag	A red and yellow flag	A red light	
15	4030	C	The Pollution Prevention Regulations (33 CFR) requires an emergency means of stopping the flow of oil during oil transfer operations. That emergency means may be a/an _____.	manually-operated quick-closing valve	self-closing automatic disconnect fitting	emergency pump control on the cargo deck	automatic pressure-sensitive oil flow regulator	
15	4032	B	The best emergency repair to a crack forming in the vessel's hull is to _____.	drive wedges into the crack	drill the ends of the crack and apply a concrete patch	weld a doubler plate over the crack	weld a metal box over the crack and applying air pressure	
15	4039	C	The component in an inert gas system used for cleaning the gas of solid and sulphur combustion products, while simultaneously cooling the inert gas, is called the _____.	filter	cooler	scrubber	purifier	
15	4040	B	According to Pollution Prevention Regulations (33 CFR), the shore facility must have an emergency means to stop the flow of oil to a vessel in _____.	15 seconds on any facility which starts operations after April 1, 1985	30 seconds on any facility which starts operations after November 1, 1980	90 seconds on any facility which starts operations after December 1, 1976	120 seconds on any facility which starts operations after July 1, 1973	
15	4042	A	An acceptable method of temporarily sealing a crack formed in the hull of a vessel is to _____.	apply a patch of sheet packing backed by a shole and shoring	drill holes at each end	shore up the crack with welded braces	tack weld a doubler plate over the crack	
15	4048	B	The fire extinguishing action of CO2 comes mostly from _____.	breaking the fire chemical chain reaction	smothering	cooling	isolating the heat from the fuel	
15	4050	D	The emergency shutdown requirements of Pollution Prevention Regulations (33 CFR) apply to _____.	condensate pumps	air compressors	induced draft fans	cargo transfer systems	
15	4060	A	Which of the following represents an emergency procedure used to stop the oil flow aboard tank vessels, of 250 tons or greater, as required by Pollution Prevention Regulations (33 CFR)?	Quick-acting power actuated valve	Self-closing emergency disconnect fitting	Pressure-sensitive oil pressure controller	Manually-operated quick-closing valve	
15	4061	C	Where will you find the procedures for the reporting of oil discharge into the water?	The vessel's Certificate of Inspection	The vessel's Oil Record Book	The vessel's Oil Transfer Procedures	The vessel's International Oil Pollution Prevention Certificate	
15	4069	A	Which of the listed functions is the purpose of a gas scrubber in an inert gas generation system?	Cools the inert gas.	Maintains the oxygen content at 5% by volume.	Drains off static electricity in the inert gas.	Maintains the water seal on the gas main.	
15	4070	B	While your vessel is fueling, you notice that the transfer hose has developed a large bulge. Which of the following actions should be taken, according to Coast Guard Regulations (33 CFR), if you are the person-in-charge?	Wrap the bulge area with nylon line.	Stop the transfer of fuel.	Report the incident to the Coast Guard	Simply order new hose for the next fueling operation.	

15	4071	D	Coast Guard Regulations (46 CFR) permit liquefied petroleum gas for use in cooking and heating aboard _____.	excursion vessels	passenger vessels	ferry vessels	tank vessels	
15	4072	C	The lengthening of a crack formed in the shell plating of a ship may be prevented by _____.	welding brackets across both ends of the crack	chipping out and slot welding the entire crack	drilling a hole at each end of the crack	cutting a square notch at each end of the crack	
15	4088	B	The empty weight of a B-II CO2 fire extinguisher is 34 pounds, therefore, the full charged weight is _____.	44 lbs	49 lbs	54 lbs	59 lbs	
15	4089	C	Tankers of 100,000 DWT (metric) or more, built after January 1, 1975, carrying grade "A" cargo must have a Coast Guard approved inert gas system capable of supplying _____.	arbitrary gas mixture with a continuous oxygen content of 8% or less by volume	inert gas at 125% of combined maximum rated capacities of all cargo pumps operated simultaneously	and maintaining a gas pressure of 100 MM (4 inches) of water on filled cargo tanks during loading and unloading	all of the above	
15	4104	B	A high concentration of hydrogen sulfide gas is most likely to be found in which of the locations listed?	Fireroom bilges where hydrazine has accumulated.	Sewage compartment bilges where leaked sewage has accumulated.	Engine room bilges where chemical cleaners and solvents have accumulated.	Emergency battery storage compartment where discharge gases have accumulated.	
15	4108	D	Portable carbon dioxide fire extinguishers should be sent ashore to be recharged _____.	when the remaining charge volume is less than 90 percent of the required VOLUME	at each inspection for certification	at each annual inspection	when the weight loss exceeds 10% of weight of charge	
15	4109	B	Inert gas systems fitted on tank vessels must be fitted with an alarm to give an audible and visual warning when the oxygen content of the inert gas exceeds _____.	4% by volume	8% by volume	12% by volume	16% by volume	
15	4119	A	Coast Guard Regulations (46 CFR) permit which of the following systems to be used for fire prevention and the simultaneous inerting of cargo tanks on tank vessels?	An inert gas system	The deck foam system	The fire main system	A fixed water spray system	
15	4124	D	Prior to entering a shipboard compartment containing spilled sewage, you should test the atmosphere in the compartment for _____.	Hydrogen sulfide	Methane Gas	Oxygen	All of the above	
15	4128	C	The empty weight of a "100 pound" cylinder in a fixed CO2 fire extinguishing system is 130 pounds. What is the minimum acceptable weight of the cylinder before recharging would be required?	200 lbs	210 lbs	220 lbs	230 lbs	
15	4129	D	The blowers of an inert gas generation system aboard a tanker, will be automatically secured if _____.	normal water supply at the water seal is lost	the temperature of the inert gas being delivered to the cargo tanks is more than 150°F	the cooling water supply to the scrubbers is lost	all of the above	
15	4134	C	When pumping sour crude, which gas should be tested for prior to entering the cargo pumproom to repair a leaking pump?	Benzene	Carbon monoxide	Hydrogen sulfide	Tetrathyl lead	
15	4139	D	What is the required combined capacity for all fans used in an inert gas system as related to the cargo pumps?	50%	75%	100%	125%	
15	4140	A	Waste oil from the lube oil sumps of machinery may NOT be _____.	drained into the vessel's bilges	reclaimed for other uses	held in a slop tank	purified and then reused	
15	4149	B	Which of the following methods is used to supply inert gas from a flue gas system to the cargo tanks?	Exhaust gas pressure	High capacity fan	Inert gas compressor	Natural aspiration	
15	4150	B	The Pollution Prevention Regulations (33 CFR) prohibit draining _____.	waste oil into the slop tank	lube oil purifiers into the bilge	fuel oil heaters into buckets	lube oil strainers into drip pans	

15	4159	B	After allowing for pressure losses, the pressure-volume capacity of an inert gas blower must be able to maintain a pressure, in any cargo tank, with a minimum of _____.	50 millimeters of water	100 millimeters of water	150 millimeters of water	200 millimeters of water	
15	4160	C	The Pollution Prevention Regulations (33 CFR) prohibits draining _____.	fuel oil burners into buckets	oil transfer hoses into buckets	fuel oil strainers into the ship's bilges	lube oil strainers into fixed drip pans	
15	4179	A	The purpose of the deck seal in an inert gas system is to prevent _____.	flammable vapors from entering machinery space	flue gas escaping to atmosphere	inert gas escaping to atmosphere	air entering inert gas system	
15	4180	C	The Pollution Prevention Regulations (33 CFR) state that a ship's oily bilge slops may be pumped in port only if the _____.	local port authority gives permission	local port authority has completed the required pollution inspection	discharge is led to a slop barge or shoreside tank	engineer on watch has signed the declaration of inspection	
15	4189	A	Open tank ullage holes which are not gas free, must be protected by _____.	flame screens	warning signs	P.V. valves	stop-check valves	
15	4190	C	Bilges may be pumped _____.	on the outgoing tide	overboard after dark	overboard through an oily water separator	anytime in an emergency, i.e. main engine lube oil failure	
15	4199	D	Flame screens used on ullage openings prevent flames from entering a tank by _____.	reducing the cross-sectional area of the opening	restricting the flow of gases through the opening	creating turbulence in the exiting gas stream	dissipating heat from the flame into the surrounding metal	
15	4208	B	In accordance with Coast Guard Regulations (46 CFR), what quantity of B-II extinguishers would be required in an oil fired boiler space on a 25,000 gross ton cargo vessel in which no sand, soda impregnated sawdust, or other approved dry materials are provided?	1	2	3	4	
15	4212	A	Following a grounding, you can best determine that a SLACK fuel oil tank has been holed by _____.	sounding the tank	waiting for the vessel to list	examining tank boundaries	checking fuel oil strainers	
15	4218	C	According to Coast Guard Regulations (46 CFR), how many B-II hand portable fire extinguishers are required in a space containing two 4000 bhp main propulsion diesel engines?	Two	Four	Six	Eight	
15	4220	A	According to the Pollution Prevention Regulations, any discharge of oil, or oily mixture into the sea from any oil tanker, or from any ship of 400 gross tons and above, other than an oil tanker, is prohibited while in a "special" area. These "special areas" are designated in _____.	33 CFR 151	33 CFR 153	33 CFR 156	33 CFR 159	
15	4222	B	Your vessel has run aground and upon taking fuel oil tank soundings, you find that a fuel tank level has increased. You therefore should suspect _____.	condensation in the fuel tank	a crack in the hull portion of the fuel tank	a load of bad fuel	contamination from the saltwater flushing system	
15	4228	B	According to Coast Guard Regulations (46 CFR), how many 15 pound carbon dioxide fire extinguishers are required to be installed in a machinery space containing an 8,000 horsepower main propulsion diesel engine?	Four	Six	Eight	Ten	
15	4229	D	According to (46 CFR), a single layer flame screen of corrosion resistant wire is required to be of at least a mesh of _____.	8 x 8	10 x 10	20 x 20	30 x 30	

15	4230	A	According to Federal Regulations, new tank vessels enroute beyond the 50 mile limit may not discharge an oily mixture into the sea from a cargo tank or cargo pump room unless _____.	the quantity of oil discharged into the sea does not exceed 1/30,000 of the total quantity of cargo carried on board	anchored outside the breakwater	discharging oil at a rate not exceeding 200 liters per nautical mile	the quantity of oil discharged into the surrounding waters does not exceed 1/600,000 of the total quantity of cargo carried onboard	
15	4238	A	Coast Guard Regulations (46 CFR) require how many 15 pound carbon dioxide fire extinguishers to be installed in the boiler room of an 8,000 horsepower steam propelled vessel?	Two	Four	Six	Eight	
15	4239	D	The device used for preventing the passage of flames into enclosed spaces is called a _____.	flame relief valve	flame stopper	safety valve	flame arrester	
15	4248	C	How many approved fire extinguishers must be carried in the machinery space of a 3000 BHP, vessel?	1	2	3	7	
15	4250	A	When cargo oil tanks are cleaned by crude oil washing while in port, _____.	provision should be made for a shoreside holding tank or an onboard slop tank	water should be allowed to settle before discharge overboard	filters should be installed in bilge strainers to absorb oil before discharge overboard	the dock supervisor need not be notified before discharging oily mixtures overboard	
15	4253	C	At the earliest indication of fire aboard your vessel, you must FIRST _____.	locate the fire	determine which type of fire is burning	sound the alarm	fight the fire	
15	4258	D	Coast Guard Regulations (46 CFR) state that the maximum number of type B-II hand portable fire extinguishers required aboard a 299 gross ton uninspected motor vessel with 7000 BHP main propulsion diesel engine is _____.	one	three	six	nine	
15	4260	C	A new ocean going ship of 2000 gross tons having an inoperative oily water separator may dispose of its bilge slops by _____.	holding its slops onboard until they can be pumped into the city sewer system	circulating them through the lube oil purifier to remove water and debris	holding its slops onboard until they can be discharged to a shoreside reception facility	pumping them into a settling tank for separation before pumping the oily water residue overboard	
15	4263	B	Which of the following statements represents the correct action to take when three crew members discover a fire?	One man report the fire, and the other two men fight the fire.	One man report the fire, one man fight the fire, and one man evacuate and secure the area.	One man report the fire, one man fight the fire, and one man act as a safety observer.	All three men fight the fire and report it immediately after it is extinguished.	
15	4268	C	According to Coast Guard Regulations (46 CFR), a 299 gross ton 2800 horsepower uninspected motor towing vessel would require _____.	three hand portable B-II fire extinguishers	five hand portable B-II fire extinguishers	six hand portable B-II fire extinguishers	nine hand portable B-II fire extinguishers	
15	4273	C	A low velocity fog applicator is held in an all-purpose nozzle by a bayonet joint. The applicator is prevented from rotating in the joint by _____.	water pressure	a keeper screw	a spring-loaded catch	a locknut	
15	4278	B	Coast Guard regulations (46 CFR) state that all handheld portable fire extinguishers required aboard uninspected motor vessels shall be type _____.	A	B	C	D	
15	4280	D	In port, after chemically cleaning a fuel oil tank, you should dispose of the waste oil by _____.	pumping it into the sewer connection	centrifuging and reclaiming it	circulating it through an oil and water separator	discharging it into a slop barge or holding tank	
15	4288	B	Where would you look to find the number of hand portable fire extinguishers required on an uninspected towing or fishing industry vessel?	Modern Marine Engineer's Manual	Subchapter C, Rules and Regulations for Uninspected Vessels	The Damage Control Book	Fire fighter's Handbook	



15	4304	B	While in drydock in a U.S. port, you discover that the spool piece for the fire pump sea suction is wasted away. You should _____.	place a cement box patch on the spool piece	replace the spool piece	silver braze a patch over the leak	patch the leak with epoxy sealer	
15	4314	B	According to Pollution Prevention Regulations (33 CFR), you are required to test cargo discharge piping every _____.	6 months	12 months	18 months	24 months	
15	4319	A	According to the Pollution Prevention Regulations (33 CFR), no person may use a connection for oil transfer operations unless it is a bolted or full threaded connection, or _____.	an automatic back pressure shut off nozzle is used to fuel the vessel	a clamped or compression fitted connection	a quick connection coupling approved by the American Petroleum Institute	a connection not over six inches in diameter	
15	4324	B	Which of the following statements concerning oil transfer, related equipment, tests and inspections is true?	Each pressure gauge in the system must indicate a reading that is within 5% of the actual system pressure.	Each nonmetallic oil transfer hose, larger than a 3" inside diameter must be inspected, and tested annually.	A 6" inside diameter nonmetallic oil transfer hose having a small slash penetrating the hose reinforcement may remain in service if there is no visible internal deterioration.	All of the above.	
15	4329	B	According to Pollution Prevention Regulations (33 CFR), a vessel built in 1977 with a gross registered tonnage of 219 tons, must _____.	use one gallon portable containers under tank vents when fueling	use an automatic back pressure shut off nozzle when fueling	use a fixed container or enclosed deck area under or around each lube oil tank vent when fueling	fill fuel tanks forward of the collision bulkhead first	
15	4339	D	Pollution Prevention Regulations (33 CFR) require a 1500 gross ton vessel (constructed before July 1, 1974) equipped with a fill fitting for which discharge containment is impractical to _____.	have the fill fitting altered on or before December 31, 1986	use a drip collar on the fill fitting	have a designated crew member stand watch over the fill fitting	use an automatic back pressure shut off nozzle	
15	4349	D	A vessel over 100 gross tons in coastwise service is to deballast its fuel tanks to a facility while in port. This vessel must have a/an _____.	deballasting pump which is independent of the ballasting pump	stop-check valve located at the pump discharge	oil and water separator to retain oily waste in a holding tank	adapter or shore connection made in accordance with 33 CFR Part 155	
15	4358	B	What Coast Guard Regulations apply to the equipment of a fireman's outfit?	The assembled lifeline shall have a breaking strength of 2,500 pounds.	The helmet shall provide effective protection against impact.	The boots and gloves shall be fire retardant and water resistant.	All protective clothing must be electrically nonconducting.	
15	4359	D	An ocean going ship of 4000 gross tons must be fitted with a standard discharge shore connection for the discharge of oily wastes to a reception facility. The dimensions for the connection are specified in the Pollution Prevention Regulations under Part _____.	151	153	154	155	
15	4368	A	Coast Guard Regulations apply to which of the following requirements of the equipment required to be in a fireman's outfit?	The flashlight shall be Type II or Type III.	The assembled lifeline shall have a breaking strength of 2,500 pounds.	The combustible gas indicator hose must be 100 feet in length.	All protective clothing must be electrically nonconducting.	
15	4369	C	An ocean going ship of 6000 gross tons must be fitted with a standard discharge shore connection with dimensions outlined in Pollution Prevention Regulations (33 CFR) or be substituted with a _____.	portable connection using a four bolt pattern	suitable discharge shore connection	portable adapter that meets the same specification outlined in 33 CFR, Subchapter "O"	clip-on flange suitable for service pressure of 4kg/cm2	
15	4378	B	Which of the following statements represents the Coast Guard Regulations (46 CFR) applicable to the equipment required in a fireman's outfit?	The flashlight must be of an approved three cell fireproof type.	The assembled lifeline shall have a minimum breaking strength of 1,500 pounds (683.8 kg).	The combustible gas indicator hose must be 100 feet (30.48 m) in length.	All protective clothing must be electricity nonconducting.	

15	4379	B	According to Pollution Prevention Regulations (33 CFR), the minimum number of bolts permitted in an ANSI standard flange on an oil hose is _____.	three	four	six	nine	
15	4380	A	Pollution Prevention Regulations (33 CFR) state that no person may transfer oil or fuel to a vessel of 300 gross tons or more, constructed after June 30, 1974, unless each fuel tank vent, overflow, and fill pipe is equipped with a/an _____.	fixed fuel oil discharge containment	portable fuel oil discharge containment	automatic back pressure shutoff nozzle	quick-closing anti-spill valve	
15	4388	D	Which of the following statements represents U.S. Coast Guard regulations concerning the equipment used with firemen's outfits?	The flashlight must be an approved 3 cell fireproof type.	The lifeline must be phosphor bronze wire rope only.	The combustible gas indicator hose must be 100 feet (30.5 m) in length.	Boots and gloves must be electrically nonconducting.	
15	4389	B	According to the Coast Guard Pollution Prevention Regulations (33 CFR), what is the minimum number of bolts required in a temporarily connected standard ANSI coupling?	2 bolts	4 bolts	6 bolts	8 bolts	
15	4390	A	The Pollution Prevention Regulations (33 CFR) requires that No person may transfer oil to or from a vessel unless _____.	all necessary components of the transfer system are lined up before the transfer begins	all unnecessary parts of the transfer system are open and drained	the transfer system is connected to a flexible fuel hose	the transfer system is connected to an automatic back pressure shutoff nozzle	
15	4398	B	How many emergency outfits are required to be carried onboard all tankships over 1,000 gross tons?	One emergency outfit	Two emergency outfits	Three emergency outfits	Four emergency outfits	
15	4399	B	The minimum number of bolts necessary for a standard ANSI oil transfer hose temporary flange coupling (eight bolt hole flange) is _____.	two bolts	four bolts	six bolts	eight bolts	
15	4400	C	Pollution Prevention Regulations (33 CFR), state that no person may transfer oil to or from a vessel unless _____.	oil residue has been drained from all hoses	an oil containment boom is available for immediate use	all parts of the transfer system have been properly lined up	a representative sample has been taken from the oil being received	
15	4408	C	As part of the emergency outfit required to be carried onboard all tank vessels over 1000 gross tons, flashlights must be _____.	of a minimum number of two explosion proof type	listed by NEMA and bearing its label	of the Type II or Type III	all of the above	
15	4409	B	The tanks used for oily waste on a new ocean going cargo ship of 6000 gross tons must meet certain requirements for isolation between oil and bilge systems. These requirements are set forth in _____.	33 CFR 155.370(b)2	46 CFR 56.50-50(h)	33 CFR 151.23(a)2	46 CFR 74.15-10(b)	
15	4418	C	A fireman's outfit carried onboard cargo vessels, must have a _____.	canister-type gas mask	fresh-air breathing apparatus	self-contained breathing apparatus	combustible gas indicator	
15	4419	A	U.S. Coast Guard Regulations (33 CFR), state that ocean going ships of 400 gross tons and above must be fitted with a standard discharge shore connection for the discharge of oily waste from machinery space bilges to reception facilities. The flange of this discharge connection must be _____.	suitable for a service pressure of 6 kg/cm <sup>2</sup>	designed to accept pipes up to a maximum internal diameter of 100 mm	10 mm in thickness	slotted to receive eight bolts and 20 mm in diameter	
15	4420	D	According to the Coast Guard Pollution Prevention Regulations (33 CFR), no person may transfer oil to or from a vessel unless _____.	each part of the transfer system not necessary for the transfer operation is securely blanked or shut off	the discharge containment is in place	each scupper or drain in a discharge containment system is closed	all of the above	

15	4429	B	An oceangoing ship of 400 gross tons and above must be fitted with a standard discharge shore connection. What is the size of the bolt circle diameter of the shore connection required to transfer oily ballast to a shoreside reception facility?	125 mm	183 mm	215 mm	It depends on outside pipe diameter.	
15	4430	D	According to Pollution Prevention Regulations (33 CFR), no person may transfer oil to or from a vessel unless _____.	each hose is supported in a manner that prevents strain on its coupling	each part of the transfer system necessary to allow the flow of oil is lined up for transfer	each oil transfer hose has no loose covers, kinks, bulges, or soft spots, and no gouges, cuts or slashes that penetrate the hose reinforcement	All of the above.	
15	4439	D	Which of the following statements is true concerning oil transfer connections?	Any permanently connected flange coupling must have a bolt in each hole.	Approved quick-connect couplings may be used.	When a temporary connection utilizes an American National Standard Institute (ANSI) standard flange, a bolt in every other hole is acceptable if at least four bolts are used.	All of the above.	
15	4440	D	Oil Pollution Prevention Regulations (33 CFR), require that the person-in-charge of transfer operations is to insure that the _____.	drains and scuppers are closed by the mechanical means	transferrer and transferee know the identity of the product to be transferred	hose is supported to prevent kinking or damage	all of the above	
15	4449	D	In accordance with Coast Guard Regulations (33 CFR), each pressure gage used in fuel transfer operations must be calibrated to indicate pressure within what percent of the actual pressure?	3%	5%	7%	10%	
15	4450	B	The Pollution Prevention Regulations (33 CFR) require that no person may transfer oil to or from a vessel unless _____.	bonding cables are installed on all tanks	flange couplings are properly bolted	scuppers and drains are unplugged	an oil containment boom is ready for immediate use	
15	4458	B	While on watch in the engine room, you hear a continuous sounding of the general alarm. Which of the following actions should you take FIRST?	Secure the burners then proceed to your assigned boat station.	Start the fire pump and establish flow to the fire main.	Open the guardian valve and standby to maneuver.	Open the master control valves on the fixed CO2 system.	
15	4459	B	In an oil pumping operation where pumping connections are made up of flanged hoses the weakest link is the _____.	flange	hose	stud	bolt hole	
15	4468	C	While on watch in the engine room, you hear a continuous sounding of the general alarm. Which of the following actions should you take?	Make an entry in the official logbook.	Open the master control valves on the fixed CO2 system.	Start the fire pump and check discharge pressure.	Secure auxiliary condenser overboard discharge.	
15	4478	C	As soon as you hear the fire and emergency signal, you should ensure that the _____.	ring buoys are thrown overboard	engines are stopped	fire pumps are started	life preservers have been issued to everyone	
15	4488	A	Which of the following actions should be taken by the engine room watch when the general alarm is sounded continuously?	The fire pump should be started.	The boiler fires should be secured.	The fixed CO2 system should be initiated into action.	The engine room ventilation should be secured.	
15	4490	A	Pollution Prevention Regulations (33 CFR) state that no person may transfer oil to or from a vessel unless _____.	hoses are supported so that couplings have no strain on them	a sample has been taken from the oil being received	an oil containment boom is available for immediate use	each part of the transfer system is blown through with air	
15	4498	B	When the general alarm is sounded continuously, the engine room personnel should _____.	proceed to their man overboard stations	start the fire pump	put on lifejackets and go to their abandon ship stations	secure the propulsion diesel engines and evacuate the engine room	

15	4500	A	According to Pollution Prevention Regulations (33 CFR), no person may connect or engage in any other critical oil transfer operation unless _____.	the designated person-in-charge is present	that person holds a tankerman endorsement	that person holds a license as master, mate, or engineer	that person holds a valid port security card	
15	4508	C	Which of the actions listed should be taken by the engineer on watch when the general alarm is sounded continuously for 10 seconds?	Engine room ventilation should be started.	Main engines should be secured.	The fire pump should be started.	The fixed CO2 system should be activated.	
15	4509	B	Which of the listed operations must be personally supervised by the person-in-charge while taking on fuel?	Posting of the Declaration of Inspection in a conspicuous place under glass.	Topping off of any tanks being loaded.	Disposing overboard all waste oil or slops from drip pans.	Periodic sampling during the loading to ensure uniformity.	
15	4519	B	During topping off of bunker tanks, the loading rate must be personally supervised by the _____.	terminal operator	person-in-charge	master	chief engineer	
15	4520	A	According to Pollution Prevention Regulations (33 CFR), when may a person serve as the person-in-charge of both a vessel and a facility during oil transfer operations?	When authorized by the Captain of the Port.	When licensed as a certified refueling officer.	Whenever the vessel is short of manpower.	Whenever the facility is unmanned.	
15	4528	C	As soon as you hear the fire and emergency signal, you should ensure that _____.	the ring buoys are thrown overboard	the engines are stopped	the fire pumps are started	everyone is suited in an approved life preserver	
15	4529	A	When fuel tanks are being topped off, the person-in-charge of bunkering is directly responsible for the _____.	loading rate	vessel draft readings	quality of fuel received	temperature of fuel received	
15	4530	D	Pollution Prevention Regulations (33 CFR) specify that the person-in-charge of bunkering is responsible for the _____.	vessel draft	quantity of fuel received	quality of fuel received	communications with terminal operator	
15	4540	D	According to the Pollution Prevention Regulations (33 CFR), no person may transfer oil to or from a vessel unless each person in charge has signed the _____.	oil record book	certificate of inspection	valve inspection record	declaration of inspection	
15	4549	C	According to Coast Guard Pollution Prevention Regulations (33 CFR), each hose assembly used for transferring oil must have a _____.	minimum design burst pressure of at least 250 psi	minimum burst pressure of at least two times the sum of the relief valve pressure plus the static head pressure of the oil transfer system where the hose is installed	maximum allowable working pressure (MAWP) for each hose assembly must be more than the sum of the relief valve setting plus the static head pressure of the transfer system, where the hose is installed.	distinct marking on the female end to identify the manufacturer of the hose	
15	4550	D	The Pollution Prevention Regulations (33 CFR) state that a person may not transfer oil or hazardous materials to or from a vessel unless each person-in-charge has signed the _____.	machinery log	oil record book	valve inspection record	Declaration of Inspection	
15	4560	B	According to the Pollution Prevention Regulations (33 CFR), who makes the final decision of when oil transfer may begin?	The senior deck officer present	The designated person-in-charge	The captain of the port	Any local Coast Guard representative	
15	4570	C	According to the Pollution Prevention Regulations (33 CFR), the declaration of inspection is the _____.	paper issued by the Coast Guard marine inspector which allows you to conduct a transfer operation	application you must complete and submit to the Coast Guard to have an inspector visit your vessel	document signed by vessel and shore facility persons-in-charge declaring that all transfer requirements have been met	annual report submitted by vessel personnel to the Coast Guard declaring that all transfer equipment has been inspected	

15	4579	C	According to the Pollution Prevention Regulations (33 CFR), which of the following conditions would disqualify a nonmetallic hose as being suitable for use in transferring oil?	A cut in the cover which makes the reinforcement visible.	A blown gasket when hydrostatic test pressure is applied.	Evidence of internal or external deterioration.	All of the above.	
15	4580	C	Prior to transfer of fuel, the Declaration of Inspection required by Coast Guard Regulation (33 CFR) _____.	is the same as the Certificate of Inspection	describes the procedure for draining the sumps of oil lubricated machinery into the bilges of U.S. vessels	must be signed by both the person-in-charge of the pumping and the person-in-charge of receiving	requires the "Discharge of Oil Prohibited" placard to be posted at the gangway	
15	4589	D	Oil "transfer hose" defects are specified in the Pollution Prevention Regulations under 33 CFR Part _____.	151	154	155	156	
15	4590	D	The Coast Guard Pollution Prevention Regulations (33 CFR) require a meeting before starting any oil transfer operation. That meeting must be between the _____.	master of the vessel and the terminal superintendent	master and chief engineer of the vessel and the terminal supervisor	terminal supervisor, Master of the vessel and the Coast Guard	person-in-charge of the oil transfer operations on the vessel and the person-in-charge of the oil transfer operations at the facility	
15	4599	D	According to Pollution Prevention Regulations (33 CFR), how much hose should you use in transferring oil in bulk?	Twice the distance between ship and dock.	One and one half times the distance between ship and dock.	Not over 300 feet (91.4 m) of hose.	Sufficient for maximum vessel movement without straining the hoses.	
15	4600	D	No person may transfer oil to or from a vessel unless the person in charge _____.	has in his or her possession a copy of the vessel's Oil Record Book	has notified the captain of the port at least 24 hours before beginning each oil transfer operation	has in his or her possession a valid Certificate of Inspection or Tank Vessel Examination Letter	is in the immediate vicinity and immediately available to the oil transfer personnel	
15	4608	D	In accordance with Coast Guard Regulations (46 CFR), a 25,000 gross ton cargo vessel on an ocean route, having two 10,000 HP oil fired boilers, requires a certain quantity of hand portable and semi-portable fire extinguishing systems in the engine room. Which of the following quantities of extinguishing agents would meet these requirements?	100 lbs. CO <sub>2</sub> , 20 lbs. dry chemical	30 lbs. CO <sub>2</sub> , 40 gals. foam	5 gals. foam, 50 lbs. dry chemical	All of the above	
15	4609	C	Pollution Prevention Regulations (33 CFR) require that on the completion of oil transfer operations all _____.	hoses shall be blown down with air	soundings shall be entered in the oil record book	valves used during transfer shall be closed	persons on duty during oil transfer shall be accounted for	
15	4610	A	According to the Pollution Prevention Regulations (33 CFR), the person-in-charge of transfer operations, both ashore and on the vessel, must agree on _____.	the identity of the product to be transferred	the size of the slop tank required under 155.330	the status of the oily water separator	whether or not the transferring ship is a "Public Vessel of the United States"	
15	4618	D	Which of the listed fire extinguishers would be considered hand portable/semiportable and capable of combating a class "B" fire?	2.5 gallons of foam	20 pounds of dry chemical	35 pounds of carbon dioxide	All of the above	
15	4619	A	When bunkering operations are completed, the hoses should be _____.	drained into drip pans or tanks	blown down with nitrogen or inert gas	steam cleaned and flushed with hot water	stowed with their ends open for venting	
15	4620	D	According to Coast Guard Regulations (33 CFR), a "suspension order" to suspend oil transfer operations can be withdrawn by the appropriate _____.	Captain of the port	Officer-in-charge, Marine Inspection	District commander	all of the above	

15	4630	D	According to the Pollution Prevention Regulations (33 CFR), who is to make the final decision of when oil transfer may begin?	Any local Coast Guard representative	Captain of the Port officer	The senior deck officer present	Designated persons-in-charge of vessel and facility	
15	4648	D	If your vessel's Certificate of Inspection requires six B-II, two A-II and one B-V fire extinguisher, which of the listed combinations will provide the amount and type required?	Six 2 1/2 gallon soda acid, two 2 1/2 gallon foam, and one 40 gallon foam	Six 2 1/2 gallon foam, two 15 pound CO2, and one 30 pound dry chemical	Six 15 pound CO2, two 2 1/2 gallon foam, and one 50 pound CO2	Eight 2 1/2 gallon foam and one 100 pound CO2	
15	4649	A	According to Coast Guard Regulations (46 CFR), no vessel can come alongside or remain alongside a tank vessel while it is loading A, B, or C grade cargo without having the permission of the _____.	officer-in-charge of the vessel which is loading	USCG captain of the port	terminal manager	tank ship owner	
15	4659	D	Coast Guard regulations (33 CFR) require that the oil transfer procedures, which must be posted on every vessel having a capacity of 250 or more barrels of oil, must contain a description of each oil transfer system installed on the vessel including each _____.	valve	pump	vent	all of the above	
15	4669	A	The "oil transfer procedures", required by the Coast Guard Oil Pollution Prevention Regulations (33 CFR), must include _____.	any special procedures inherent to that particular vessel for topping off tanks	the location, size, and barrel capacity of each tank that is capable of carrying oil	the emergency cleanup and containment procedures to be followed in the event of an oil spill	All of the above	
15	4678	D	According to Coast Guard Regulations (46 CFR) for uninspected vessels, all hand portable fire extinguishers must be approved by the _____.	American Bureau of Shipping	National Fire Protection Association	National Cargo Gear Bureau	U.S. Coast Guard	
15	4688	C	On an uninspected vessel, all portable fire extinguishers are required by law to be approved by the _____.	insurance underwriter	American Bureau of Shipping	U.S. Coast Guard	American Society for the Testing of Materials (ASTM)	
15	4700	D	The term "oil", as used in the Pollution Prevention Regulations (33 CFR), means _____.	fuel oil only	crude oil only	liquefied petroleum gas	petroleum oil of any kind	
15	4710	A	The term "oil" as defined in the Pollution Prevention Regulations (33 CFR) means: _____.	petroleum in any form	animal or vegetable based oil	noxious liquid substances designated under Annex II of MARPOL 73/78	All of the above	
15	4729	A	Each inert gas system must be designed to supply the cargo tanks with a gas, or mixture of gases, that has an oxygen content by volume of _____.	5% or less	10% or less	15% or less	20% or less	
15	4730	D	The term "oily mixture", as defined in the Pollution Prevention Regulations (33 CFR) includes _____.	sludge	oily ballast water	bilge slops	all of the above	
15	4739	B	Which of the following represents the maximum percent of oxygen, by volume, required to be achieved by a ship's inert gas system, prior to the commencement of crude oil tank washing?	6%	8%	10%	12%	
15	4740	B	The Federal Pollution Prevention Regulations (33 CFR) that apply to ships are enforced by the _____.	Port Authority	U.S. Coast Guard	Corps of Engineers	State Pollution Board	
15	4749	D	Where are remote readouts for oxygen concentration, pressure, and temperature of an inert gas system required to be located?	Bridge and engine control consoles	Bridge and tank(s) being inerted	Main deck and engine control consoles	Cargo control and engine control consoles	
15	4756	B	An oxygen indicator will detect _____.	concentrations of explosive gas	an oxygen deficiency in a space	the presence of harmful amounts of carbon monoxide	all of the above	

15	4759	B	Each inert gas system must be equipped with the following instruments: oxygen concentration indicator and recorder, pressure indicator and recorder, and temperature indicator. The point of measurement for these instruments must be located _____.	after the gas regulating valve	downstream of the blowers	scrubber outlet	upstream of the liquid filled breaker	
15	4766	B	To determine that a compartment contains sufficient oxygen to sustain life, you should use a/an _____.	explosimeter	oxygen indicator	fresh air indicator	all of the above	
15	4769	B	Each inert gas system gas main must have an automatic shut down valve at the outlet of the gas production plant. This valve must close automatically upon _____.	cargo pump failure	blower failure	deck seal low water level	low inert gas temperature	
15	4776	B	Which of the following statements is true regarding oxygen indicators?	The instrument is capable of providing an immediate accurate reading of any space with no delay.	Prolonged exposure to gases such as CO <sub>2</sub> may affect the accuracy of the indicator.	A cotton filter placed in the end of the sampling tube prevents damaging the instrument when exposed to strongly acidic gases.	All of the above.	
15	4779	C	During loading and discharging operations, in addition to when the cargo tanks have been properly filled, each inert gas system must be capable of maintaining a minimum gas pressure of _____.	150 millimeters of water pressure	125 millimeters of water pressure	100 millimeters of water pressure	75 millimeters of water pressure	
15	4780	C	An International Oil Pollution Prevention (IOPP) Certificate ceases to be valid on a U.S. Ship when _____.	the ship changes its port of documentation to San Francisco	the certificate exceeds 2 years from the date of issue	an intermediate survey as required by 33 CFR 151.17 is not carried out	the vessel owners cease to belong to IMO (International Maritime Organization)	
15	4789	B	Each ship having an inert gas system must have a portable instruments to measure concentrations of hydrocarbon vapor in inert atmospheres and also to measure _____.	nitrogen	oxygen	carbon dioxide	water vapor	
15	4799	D	The upper limit of sulphur dioxide permitted to be maintained in the inert gas should not exceed _____.	0.08%	0.06%	0.04%	0.02%	
15	4800	C	According to the Coast Guard Pollution Prevention Regulations (33 CFR), the oil transfer procedures required for an uninspected towing or fishing industry vessel should _____.	give a schedule for inspection of valves as required in 155.410	give a description of the oily water separator required in 155.380	be permanently posted or available at the fueling station	include a copy of the Certificate of Inspection of the towing or fishing vessel	
15	4809	D	An inert gas system incorporating a separately fired inert gas generator shall be provided with visual and audible alarms to indicate failure of the power supply to the generator, the automatic control system, and _____.	cooling water flow	combustion air temp too low	high sea water temperature	insufficient fuel supply	
15	4810	B	According to Pollution Prevention Regulations (33 CFR), the "Discharge of Oil Prohibited" placard is required on all _____.	foreign vessels not in U.S. navigable waters	U.S. Vessels 26 feet or more in length	Foreign vessels when engaged in noncommercial service	U.S. vessels less than 26 feet in length	
15	4820	C	A "Discharge of Oil Prohibited" placard must be fixed in a conspicuous place in each machinery space, or at the bilge and ballast pump control station as required by _____.	33 CFR 151	33 CFR 153	33 CFR 155	46 CFR 42	
15	4830	B	Which of the following liquids can ordinarily be discharged overboard without being processed through an oily water separator?	Cargo tank ballast	Segregated ballast	Engine room bilges	Cargo pumproom bilges	

15	4840	C	Exemption or partial exemption from compliance with any requirement in the Oil or Harardous Material Pollution Prevention Regulations prescribed in (33 CFR 155) may be granted by the _____.	OCMI in the vessel's home port	Captain of the Port	Commandant of the Coast Guard	vessel's Chief Engineer	
15	4860	B	Some Pollution Prevention Regulations (33 CFR), only apply to "new ships." Under these regulations, a new ship is a ship _____.	having undergone a major conversion and has been completed before December 31, 1979	for which the building contract has been placed after December 31, 1975	having undergone a major conversion for which the contract was placed between June 30, 1974 and December 31, 1975	the delivery of which is on or after June 10, 1975	
15	4870	B	Used engine oil may be properly disposed of by _____.	draining it into the bilges	discharging it to a dockside oil waste station	pumping or throwing it over the side in port	dumping it in a gasoline fuel tank	
15	4890	D	An International Oil Pollution Prevention Certificate (IOPP) for a "new" vessel ceases to be valid if _____.	it exceeds 3 years from date of issue	an alteration approved by the Captain of the Port is made	an intermediate survey has not been conducted within 12 months from the date that the IOPP was issued	the vessel is transferred to the flag of another country	
15	4900	B	If a vessel moored at a U.S. terminal does not comply with Coast Guard Pollution Prevention Regulations (33 CFR), it may be detained by the _____.	Inspector General	Captain of the Port	local port authority	state pollution board	
15	4906	D	According to Coast Guard Regulations (46 CFR), all exposed and dangerous places, such as gears and machinery shall be properly protected with _____.	covers	guards	rails	all of the above	
15	4907	B	If 1/4 liter of oil is spilled during fueling and causes a sheen upon the water, it _____.	must be reported to the fire department	must be reported to the Coast Guard	must be reported to the harbormaster	need not be reported since the spill was less than 1 barrel	
15	4909	B	If fuel tank levels are found to have increased after a grounding, you should suspect _____.	a damaged pneumericator line	a puncture, crack, or hole in the skin of the vessel	improper record keeping of fuel transfer activities	contamination of the contaminated steam supply system	
15	4910	C	Where are "prohibited oil spaces" specified in the Pollution Prevention Regulations (33 CFR)?	Part 151	Part 154	Part 155	Part 156	
15	4916	A	Coast Guard Regulations (46 CFR) require gears, couplings, flywheels, and all machinery capable of injuring personnel shall be _____.	protected with adequate covers or guards	identified by yellow and black warning signs	conspicuously identified as to their particular hazard	located where they may not be easily contacted	
15	4920	C	A self-propelled ship of 400 gross tons, constructed in January 1974, may carry fuel oil in tanks forward of the collision bulkhead, if such tanks were _____.	designated for fuel oil carriage after Jan 31, 1975	installed for fuel oil carriage on August 1, 1974	designated, installed, or constructed for fuel oil carriage before July 1, 1974	designed for cargo oil using specifications from 1976 Pollution Prevention Regulations	
15	4926	D	People should be protected from the rotating parts of machinery by _____.	vents	bright lights	reflective tape	guards	
15	4930	D	The word "discharge" as used in Pollution Prevention Regulations (33 CFR) applies to oil _____.	leaked into navigable waters	poured into navigable waters	pumped into navigable waters through a fixed piping system	all of the above	
15	4936	D	What safety precautions should be observed by the crew while working around machinery in an engine room?	They should wear safety shoes.	They should wear ear protection.	They should not wear jewelry.	All of the above.	
15	4940	D	According to the Pollution Prevention Regulations (33 CFR), which of the following qualifies as a discharge of oil?	Leakage of oil to the water by an improperly blanked transfer hose.	Spilling oil on the main deck and having it flow over the side.	Pumping oil overboard through a fixed piping system.	All of the above.	



15	5110	A	The explosive range of a mixture of flammable vapors is specified as a percentage of _____.	flammable vapor by volume in air	oxygen present to support combustion	the temperature of the flash point	the lower limit of explosibility of the mixture	
15	5114	D	What operational limitation should the user of a self-contained breathing apparatus be concerned with when using the device?	The weight of the unit changes the user's center of gravity.	The lens of the facepiece reduces the user's peripheral vision.	The attached lifeline limits the user's mobility.	All of the above are correct.	
15	5115	C	Why is it important for fuel oil tanks not to be topped off when loading cold oil?	Increased viscosity of the product needs higher loading pressure, which increases the chance of a spill.	Air pockets may cause the fuel to bubble out of the ullage hole.	The change in its specific volume when heated may cause an overflow.	The fueling valve may become stuck closed and cause the fuel oil to spill before the valve can be opened.	
15	5117	D	Pollution Prevention Regulations (33 CFR) state that no person may transfer oil to or from a vessel unless the _____.	spectacle flanges are installed in cargo pump overboard discharges	packing glands of the transfer pump must not leak at all	vessel is surrounded by an oil containment boom	fuel hose is supported to prevent strain on its couplings	
15	5118	D	The trim of a vessel is the _____.	value of the mean draft	degree of list	amount of roll	difference in fore and aft drafts	
15	5119	A	Vessel stability can be adversely affected by _____.	increasing the free surface effect	decreasing the free surface effect	ballasting down by the bow	ballasting down by the stern	
15	5120	B	Which of the following represents the maximum percent of oxygen, by volume, required to be achieved by a ship's inert gas system, prior to the commencement of crude oil tank washing?	6%	8%	10%	12%	