 4388 Which statement about entering into a tank which has be A. The tank should be tested only once to ensure the of B. The tank must be tested at frequent intervals to ens C. The tank need not be tested for oxygen content if it D. If the oxygen content tests at less than 12% you show 	Ref: Tankers, Enclosed space een sealed for a long time is TRUE? oxygen content is at least 14% before entry. ure that hazardous gasses have not regenerated. is ventilated for more than 24 hours. ould wear an approved gas mask.	В
 4390 Which statement about entry into a water ballast tank th A "buddy system" should be used where someone e B. Sea water acts on the ship's metal and generates of quantities. C. You should always wear a gas mask. D. After ventilation and testing, and the tank is found sa entrance while you are inside. 	Ref: Tankers, Enclosed space at has been sealed for a long time is TRUE? enters the tank with you. hlorine gas which may accumulate in poisonous afe for entry, someone should stand by at the tank	D
 3. 1490 In order for combustion to occur inside a piping system s emission control system, there must be A. fuel B. oxygen 	Ref: Tankers, Firefighting such as a vapor collection header in a marine C. ignition D. All of the above	D
4. 1129Fuel oil tank vents are fitted with a screen which will stopA. oil from flowing out of the tank ventB. air from entering the tank vent	Ref: Tankers, Flame Screens p C. vapors from leaving the tank vent D. flames on deck from entering the tank vent	D
 1940 Outlets in gasoline fuel lines are A. prohibited B. permitted for draining fuel from lines 	Ref: Tankers, Fuel Lines C. permitted for drawing fuel samples D. permitted for bleeding air from lines	A
 6. 943 During fueling, all doors, hatches, and ports A. to windward should be opened and the ones to leew B. to leeward should be opened and the ones to windw C. should be opened D. should be closed 	Ref: Tankers, Fueling /ard should be closed /ard should be closed	D
 7. 4671 While your vessel is taking on fuel you notice oil on the FIRST? A. Stop the fueling. B. Notify the Coast Guard. C. Notify the terminal superintendent. D. Determine the source of the oil. 	Ref: Tankers, Fueling water around the vessel. What should you do	A
 8. 4759 You are fueling your vessel when you notice oil in the wastop fueling and A. begin cleanup operations B. notify the U. S. Coast Guard C. leave the area 	Ref: Tankers, Fueling ater around your vessel. You should immediately	В

D. notify the Corps of Engineers

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Deck Safety	TANKER GENERA	٩L
 9. 4934 You detect oil around your tank vessel while discharging A. try to find out where the oil is coming from B. call the Master C. have the pumpman check the discharge piping D. shut down operations 	Ref: Tankers, Fueling . The FIRST thing to do is	D
 10. 5136 Your vessel is at a dock taking bunkers. If oil begins to fl FIRST? A. Open the intake valve to an adjacent tank. B. Set out drip pans and sawdust and begin to mop up C. Signal the shore control point to shut down. D. Close the valve on the tank vent line. 	Ref: Tankers, Fueling ow out of a tank vent, what should you do the spill.	С
 11. 5167 Your vessel is taking on fuel when a small leak develops Before you resume pumping, you should A. notify the terminal superintendent B. place a large drip pan under the leak and plug the so C. repair the hose with a patch D. replace the hose 	Ref: Tankers, Fueling in the hose. You order the pumping stopped. cuppers	D
 12. 3502 What best describes for how long a gas-free test is good A. For as long as is indicated on the gas-free certificate B. For the instant that it is made C. Until valves in line with the tank or compartment are D. Until changes in temperature or pressure affect the values 	Ref: Tankers, Gas-free testing ? reopened vapor content in the space	B
 13. 1711 On a hydrocarbon flammability chart the line which exter the flammability range, is called the A. minimum oxygen content line B. critical displacement line 	Ref: Tankers, Hydrocarbon flammability chart nds from 0% to 21.8% oxygen, lying tangent to C. critical dilution line D. upper threshold limit	С
 14. 614 After the initial cleaning of flue gas in an inert gas system cleaning? A. Scrubber B. Demister 	Ref: Tankers, Inert gas n the gas is passed through what device for final C. Deck water seal D. Final filter	В
 15. 698 An inert gas system installed on a tanker is designed to A. aid in the stripping and cleaning of cargo tanks B. increase the rate of discharge of cargo C. force toxic and explosive fumes from a cargo tank to D. lower the oxygen levels inside cargo tanks, making explosite ta	Ref: Tankers, Inert gas 	D
 16. 699 An inert gas system is designed to reduce the possibility A. eliminating sparks and fire in the vicinity of cargo tar B. removing all hydrocarbon gases from the cargo tank C. blanketing cargo tanks with inert foam D. reducing the oxygen concentration below levels nec 	Ref: Tankers, Inert gas of tank explosions by ks s essary for combustion	D 825 215

1 A	7. 700 n inert gas system on a tanker should be used to	Ref: Tankers, Inert gas	С
A B C D	 prevent the generation of flammable or combustible blow out cargo lines to prevent the build up of gas of dilute tank atmospheres to keep gas concentrations prevent fires in the pumproom by continually displace 	gas in tanks oncentrations below the lower explosive limit ing flammable vapors	
1 C s	8. 878 coast Guard Regulations permit which of the following s multaneous inerting of cargo tanks on tank vessels?	Ref: Tankers, Inert gas systems to be used for fire prevention and the	A
A B	. An inert gas system . The deck foam system	C. The fire main systemD. A fixed water spray system	
1 E	9. 987 ach inert gas system gas main must have an automatic reduction plant. This value must close automatically up	Ref: Tankers, Inert gas c shut down valve at the outlet of the gas	В
Р А В	 cargo pump failure blower failure 	C. deck seal low water level D. low inert gas temperature	
2 H	0. 1176 ow does an inert gas system on a tanker function to pr	Ref: Tankers, Inert gas	D
A B C D	 De-energizes the "charged mist" effect. Maintains a positive pressure on the vent header to Inert gas filters out the flammable vapors from the ca Inert gas dilutes the flammable vapor and air concert 	cool the flammable vapors. argo tank spaces. htrations to keep them below the lower explos	sive
2	limit.	Ref: Tankers, Inert gas	А
lr h A	troducing inert gas into a tank already inert with the ob ydrocarbon content to prevent combustion if air enters . purging	c. gas dispersion	
В	. gas treeing	D. bonding	
T A B	he advantages of using an inert gas system on a tank v for faster loading tank atmosphere with low oxygen content	Vessel is that it provides C. better fuel economy D. All of the above	
2 T	 2167 blowers of an inert gas generation system aboard a 	Ref: Tankers, Inert gas tanker, will be automatically secured if	D
A B C D	 normal water supply at the water seal is lost the temperature of the inert gas being delivered to the cooling water supply to the scrubbers is lost all of the above 	ne cargo tanks is more than 150°F	
2 T	4. 2323 he combined fan discharge rate in an inert gas system	Ref: Tankers, Inert gas is related to the	B
B	. cargo pump discharge rate	D. size of the largest cargo tank	
2 T	5. 2325 he component in an inert gas system used for cleaning bile simultaneously cooling the inert gas is called the	Ref: Tankers, Inert gas the gas of solid and sulfur combustion produ	Clicts,
A B	. filter . cooler	C. scrubber D. purifier	5
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Deck Safety

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Deck Safety	TANKER GENE	RAL
 26. 2342 The deck water seal of the inert gas system A. cools the inert gas and prevents soot from entering B. acts as an emergency system shutdown when the i in the hazardous zone C. prevents the backflow of hydrocarbon gasses into n D. relieves sudden large overpressures in the system 	Ref: Tankers, Inert gas the cargo tanks nlet pressures exceed the safe working pressure onhazardous areas	С
 27. 2611 The fresh air intake of the inert gas system, A. prevents the flue gas from falling below an oxygen of B. allows the inert gas piping to be used for gas freeing C. opens when there is excessive vacuum on the deck D. enables outside air to mix with and to cool the hot fl 	Ref: Tankers, Inert gas content of 3% g the tanks c water seal ue gasses	В
 28. 2917 The purpose of inert gas systems aboard tank vessels i A. allow sufficient oxygen in the tank to sustain life B. prevent outside air from entering the tank C. provide increase in cargo discharge pressure D. comply with double hull pollution prevention regulat 	Ref: Tankers, Inert gas s to	В
 29. 2918 The purpose of the deck seal in an inert gas system is t A. flammable vapors from entering machinery space B. flue gas escaping to atmosphere C. inert gas escaping to atmosphere D. air entering inert gas system 	Ref: Tankers, Inert gas o prevent	A
 30. 3659 What is the major function of the deck water seal in an i A. Relieves excessive pressures from the system. B. Isolates hazardous areas from nonhazardous areas C. Prevents the flow of inert gas into closed or isolated D. Removes any leftover water or soot after the gas has 	Ref: Tankers, Inert gas nert gas system? I tanks. as been scrubbed.	В
 31. 4143 Where are remote readouts for oxygen concentration, p required to be located? A. Bridge and engine control consoles B. Bridge and tenk(a) being instead 	Ref: Tankers, Inert gas ressure, and temperature of an inert gas system C. Main deck and engine control consoles	D
 Bruge and tank(s) being mened 32. 4172 Which action must be taken when an individual cargo ta tank isolation valve? A. The tank must be gas freed. 	C. The tank must be vented to the atmosphere.	С
 B. The tank must be ballasted. 33. 4180 Which alarm is NOT found on an inert gas system? A. Low oxygen alarm B. Low pressure alarm C. Scrubber high water level alarm D. Dadk each low water alarm 	D. The bypass valve must also be closed.Ref: Tankers, Inert gas	A
D. Deck seal low water alarm		No. A

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34. 4264 Which function is NOT provid A Cools the inert gas	ded by the scrubber of an	Re inert (C	f: Tankers, Inert gas gas system? Maintains gas pressure in the tank	C
 B. Removes particulate ma 	tter like soot.	D.	Removes chemical impurities from	n the gas.
35. 4310Which method is used to supA. Exhaust gas pressure fromB. High capacity fan	oply inert gas from a flue g om the stack	Re gas sys C. D.	f: Tankers, Inert gas stem to the cargo tanks? Inert gas compressor Natural aspiration	В
36. 4337Which of the listed functionsA. Cools the inert gas.B. Maintains the oxygen coC. Bleeds off static electriciD. Maintains flow to the way	is the purpose of a gas so ntent at 5% by volume. ty in the inert gas. ter seal on the gas main.	Re crubbe	f: Tankers, Inert gas er in an inert gas generation system	A ?
 37. 4343 Which part of the inert gas si capacity of the mechanical F A. Pressure control valve B. Deck water seal C. Liquid filled P/V breaker D. Isolation valve 	ystem is designed to reliev /V valves?	Re ve suc	f: Tankers, Inert gas Iden large overpressures that excee	C ed the
 38. 4401 Which statement about inert A. The pressures of the inerdischarging. B. Gas pressures should be process. C. High gas pressures may D. High gas pressures may 	gas pressures in a cargo rt gas in the tank may creater e maintained at the highes r cause pyrophoric oxidation cause loss of suction whe	Re tank is ate ex st pern on in th en stri	f: Tankers, Inert gas s TRUE? cessive pressure at the pump while nissible level throughout the discha he tank. pping.	B
 39. 4412 Which statement about the in A. Boiler soot blowers shou B. The boiler will produce the C. The boiler will produce the light. D. Flue gas with excessive 	nert gas system is TRUE? Ild never be used when th ne best quality of flue gas ne most quantity of flue ga oxygen content is de-oxyg	Re e IG s for the as for t genate	f: Tankers, Inert gas ystem is operating. e IG system when the boiler load is the IG system when the boiler syste ed in the scrubber.	A very light. em is very
40. 4458Which statement is TRUE coA. Flue gases from the shipB. Helium is the preferred inC. Using the system acceledD. All of the above	oncerning inert gas system o's boilers are used in som nert gas. erates the rusting of the tar	Re ns on f ne syst nks.	f: Tankers, Inert gas tank vessels? tems.	A
 41. 1064 Flames from small leaks of L A. utilizing carbon dioxide of B. utilizing soda and acid fill C. blowing the flames out D. letting it burn itself out 	FG may be extinguished or dry chemical fire extingu re extinguishers	Re uishers	f: Tankers, LFG s	D
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42. 1625 LFG tank and pipeline maintenance should include	Ref: Tankers, LFG	D
 B. cleaning with clean fresh or sea water 	D. All of the above	
43. 1684Name one major advantage of transporting gas under reA. It increases its volume.B. It reduces its volume.	Ref: Tankers, LFG frigeration. C. It has less product per volume. D. None of the above	В
 44. 2897 The primary concern(s) for safely transporting and handle A. a system of cargo tanks and piping free from leaks B. cargo tanks and piping strong enough to withstand the C. cargo tanks and piping located or protected to minime D. All of the above 	Ref: Tankers, LFG ling LFG is(are) he pressure nize physical damage	D
45. 3419Upon release to the atmosphere, LFG readilyA. vaporizesB. attacks caustically	Ref: Tankers, LFG C. rises D. attacks corrosively	A
46. 3799What normally helps in detecting escaping gas?A. Running hand along pipeB. Red flame	Ref: Tankers, LFG C. Odor D. Increase the line pressure	С
 47. 4282 Which is NOT a safety precaution to be observed during A. Report any leakage of cargo. B. Make sure the rake ends of the barge are completely C. Ascertain that the hoses to be used are in good order D. Be on the lookout for work being accomplished ashord 	Ref: Tankers, LFG the loading of LFG? y dry and mopped. er. ore in the vicinity of the barges.	В
 48. 49 A chemical additive to LPG gives it a characteristic A. odor B. color 	Ref: Tankers, LPG C. pressure D. density	A
 49. 4694 Why is gas-freeing rarely required for LPG cargo tanks? A. LPG is compatible with all cargoes. B. LPG's high oxygen content makes it nonvolatile. C. Cargo tanks are inspected less frequently than on oil D. The cargo tanks are used for one type of cargo only. 	Ref: Tankers, LPG il tankers.	D
50. 3778What is used to test a tank for oxygen content?A. Combustible gas indicatorB. Vapor indicator	Ref: Tankers, Oxygen Indicator C. Atmosphere analyzer kit D. None of the above	D
51. 1920On what type of pump would you find an impeller?A. CentrifugalB. Gear	Ref: Tankers, Pump, Centrifugal C. Piston D. Vane	A sin and a

52. 3506 What causes cavitation in a centrifugal pump?	Ref: Tankers, pump, centrifugal	A
A. Vapor pockets in the flow streamB. Rough impeller surfaces	C. Worn wearing ringsD. Heavy fluid in the flow stream	
53. 3810 What prevents water running along the shaft of a leaking bearing?	Ref: Tankers, pump, centrifugal g centrifugal pump from entering the shaft	В
A. Shaft sealB. Water flinger	C. Drain hole D. Lantern ring	
 54. 4690 Why does a centrifugal bilge pump require priming? A. To lubricate shaft seals B. Lack of ability to lift water level to impellers C. Head pressure must equal discharge pressure D. To overcome resistance of water in the discharge lir 	Ref: Tankers, pump, centrifugal	В
 55. 3529 What does the term "head" mean when applied to a pure A. Length of its discharge pipe B. Height of its discharge pipe C. Difference between the discharge and suction press D. Sum of discharge and suction pressures 	Ref: Tankers, Pump, Head np? sures	С
 56. 4105 When two ballast pumps used for deballasting a single to A. open all valves on the discharge side to permit imprediments. B. close the valve on the discharge side of the pump to C. close the valve on the suction side of the ballast pump. D. shut down one pump 	Ref: Tankers, Pumps ank start cavitating, you should oved flow o re-acquire suction np to re-prime the pump	D
 57. 2722 The liquid-filled PV breaker has acted to relieve a vacuu to the PV-breaker before continuing operations? A. Check to make certain that it has reset itself. B. Refill the breaker with liquid. C. Manually reset the vacuum side of the breaker. D. Install a new rupture disc. 	Ref: Tankers, PV valve m in a tank. What action must be taken in regards	В
58. 3840What type of liquid is used in the liquid P/V breaker?A. Hydraulic oilB. Water-antifreeze mixture	Ref: Tankers, PV valve C. Distilled water D. Oil from the cargo	В
59. 2066Small oil spills on deck can be kept from going overboarA. driving wooden plugs into the ventsB. closing the lids on the vents	Ref: Tankers, Scuppers d by C. plugging the scuppers D. plugging the sounding pipes	С
 60. 381 A spark arrestor A. keeps sparks from falling into an open tank B. secures covers on ullage openings C. prevents sparks from getting out of an engine's exhapped 	Ref: Tankers, Spark Arrestor	C
D. grounds static electricity	de de la construcción de	

 61. 442 A vessel is equipped with cross-connected deep tanks. valve be closed? A. The tanks lie above the waterline and are filled. B. The tanks are partially filled with dry cargo. C. The tanks are partially filled with liquid cargo. D. The tanks are filled and lie below the waterline. 	Ref: Tankers, stability In which situation should the cross-connection	С
62. 4286Which is the MOST important consideration for a tank vA. GMB. The longitudinal center of gravity	Ref: Tankers, Stability essel? C. The stress on the hull D. The vertical center of gravity	С
63. 3736What is the purpose of a striker plate?A. Provides surface for applying force on machineryB. Provides landing surface for the sounding bob	Ref: Tankers, Striker C. Absorbs machinery vibration D. Prevents valve stem over-travel	В
64. 1386If you observe any situation which presents a safety or p what action should you take FIRST?A. Close the valves at the transfer manifoldB. Notify the person in charge of the shore facility	Ref: Tankers, Transfer operation pollution hazard during fuel transfer operations, C. Shut down the transfer operation D. Sound the fire alarm	С
65. 3592What is not usually a concern when loading a single-hulA. Bending momentsB. Initial stability	Ref: Tankers, Transfer operation led tanker? C. Draft D. Trim	В
66. 4340Which operation may cause the pressure in an inert tanA. LoadingB. Discharging	Ref: Tankers, Transfer operation k to fall below the prescribed limits? C. Crude oil washing D. Steaming tanks	В
67. 4646While taking on fuel oil, the transfer hose leaks causingA. apply dispersants to the sheenB. repair the leak with duct tape	Ref: Tankers, Transfer operation a sheen on the water. You should C. reduce the rate of transfer D. shut down operations	D
 68. 4751 You are discharging cargo and the inert gas system is in tank being discharged starts to drop below the allowable A. Cut in another IG fan to increase gas flow. B. Open the pressure control valve until the pressure in C. Open the tank isolation valve to the fully open positi D. Reduce the pumping rate. 	Ref: Tankers, Transfer operation n operation to inert the tanks. The pressure in a e limit. What action should you take? ncreases. on.	D
69. 3734What is the purpose of a check valve?A. Passes air but not liquidB. Regulates liquid flow	Ref: Tankers, Valve, Check C. Permits flow in one direction only D. Passes liquid but not air	С
70. 3728 What is the proper direction of flow through a globe valv	Ref: Tankers, Valve, Globe when the valve is installed to be in a normally	С
A. Direction is unimportantB. Depends on seat configuration	C. From below the seat D. From above the seat	and the second s