

Sheet1

SNO	QFLAG	QTEXT	OP1	OP2	OP3	OP4
1	1	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
2	1	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
3	1	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

4	1	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
5	1	Prior to entering a cargo pumproom, 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
6	1	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
7	1	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

8	1	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
9	1	Besides heat, fuel, and oxygen, which of the following is necessary for a fire to exist?	Chain reaction	Thermal action	Chemical occlusion	Pyrotechnical reaction
10	1	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 gauge.

11	1	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
12	1	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.
13	1	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.

14	1	The discharge side of every fire pump must be provided with a	gate valve	pressure gauge	check valve	strainer
15	1	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
16	1	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
17	1	Immediately after extinguishing a fire with CO2, it is advisable to	use all CO2 available to cool the surrounding area	standby with water or other agents	thoroughly ventilate the space of CO2	jettison all burning materials

18	1	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 1.7 bar delivered pressure
19	1	The safe and efficient use of the face piece 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
20	1	Class D Fire is	Fire in metal	Fire in liquid	Fire in electrical system	None
21	1	Minimum capacity of SCBA is	1800L	1200L	1500L	600L

22	1	To operate a portable foam fire extinguisher, you should	puncture the CO2 cartridge	open the handwheel	pull the pin and squeeze the trigger	turn it upside down and bump the deck
23	1	The maximum allowable weight of a portable fire extinguisher is	13.5 Kgs	23 Kgs	9 Kgs	46 Kgs
24	1	In which of the following conditions, the IG blower fans should shut down automatically?	Oxygen content above 8%	Low water level in deck seal	Low water level in the scrubber tower	High scrubber water level
25	1	An inert gas system installed on a tanker is designed to	aid in the stripping and cleaning of cargo tanks	increase the rate of discharge of cargo	force toxic and explosive fumes from a cargo tank to vent to the outside atmosphere	lower the oxygen levels inside cargo tanks, making explosion nearly impossible

26	1	<p>Before using a fixed CO2 system to fight an engine room fire, you must</p>	<p>secure the engine room ventilation</p>	<p>secure the machinery in the engine room</p>	<p>evacuate all engine room personnel</p>	<p>All of the above</p>
27	1	<p>The deck water seal of the inert gas system</p>	<p>cools the inert gas and prevents soot from entering the cargo tanks</p>	<p>acts as an emergency system shutdown when the inlet pressures exceed the safe working pressure in the hazardous zone</p>	<p>prevents the backflow of hydrocarbon gasses into nonhazardous areas</p>	<p>relieves sudden large overpressures in the system</p>
28	1	<p>Which of the following kinds of total flooding system is most suited for very large spaces like car carrier car decks?</p>	<p>High pressure multi cylinder type CO2 installation</p>	<p>Low pressure bulk storage tank type CO2 installation</p>	<p>Low expansion foam systems</p>	<p>Fixed pressure water spraying systems</p>

29	1	Each section on a sprinkler system should not contain more than _____ sprinkler heads.	200	150	100	250
30	1	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
31	1	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
32	1	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

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<p>Your assigned emergency stations aboard your vessel can be found on the ship's</p>	<p>clearance paper</p>	<p>permit to proceed</p>	<p>certificate of inspection</p>	<p>Muster List</p>
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<p>Which of the following statements concerning chemical foam is true?</p>	<p>It is formed as a result of the reaction between dry powder and water</p>	<p>It is recommended for use on fires in main propulsion electric motors.</p>	<p>It is formed as a result of the rapid mixing of foam liquid, water, and air.</p>	<p>It is useful in fighting only chemical fires.</p>
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35	1	<p>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</p> <p>NEXT</p>	<p>operate the control heads mounted on the main pilot cylinders</p>	<p>close all three-way valve levers that are in the detecting position with the exception of the valve(s) to the involved space</p>	<p>open the three-way valve whose number (on the handle) corresponds with the line index chart number for the space on fire</p>	<p>lock the smoke detector indicator on the monitoring line, which automatically activates the CO2 extinguishing system</p>
36	1	<p>Fire detecting systems on merchant vessels may be arranged to sense</p>	<p>smoke</p>	<p>rate of temperature rise</p>	<p>ionized particles</p>	<p>all of the above</p>

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<p>Divisions constructed of steel which can withstand a standard fire test for 30min without passage of flame or smoke are classified as</p>	<p>B class divisions</p>	<p>A class divisions</p>	<p>A30 class divisions</p>	<p>B 30 class divisions</p>
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<p>The purpose of inert gas systems aboard tank vessels is to</p>	<p>allow sufficient oxygen in the tank to sustain life</p>	<p>prevent outside air from entering the tank</p>	<p>provide increase in cargo discharge pressure</p>	<p>comply with double hull pollution prevention regulations</p>
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<p>39</p> <p>1</p>	<p>State weather the following statement is true, partially true or false - - In case of fire emergency , As per SOLAS, Trainee Engineer or Cadets should NOT be assigned any important duty.</p>	<p>FALSE</p>	<p>TRUE</p>	<p>Partially True</p>	<p>Don't Know</p>
<p>40</p> <p>1</p>	<p>You are fighting a fire in the electrical switchboard in the engine room. You should secure the power, then</p>	<p>use a portable foam extinguisher</p>	<p>use a low-velocity fog adapter with the fire hose</p>	<p>use a portable CO2 extinguisher</p>	<p>determine the cause of the fire</p>

41	1	The most common cause of engine room fires is:	Spontaneous combustion of oily rags	Back fire of boilers	Ignition sources coming in contact with stored fuel /lubes	Oil leakage coming in contact with hot exposed surfaces
42	1	EEBD service time is	15 minutes	10 minutes	20 minutes	30 minutes
43	1	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 3.5 MPa of pressure left in the air cylinder.	The wearer should immediately leave the contaminated area	All of the above

<p>44</p> <p>1</p>	<p>During loading and discharging operation 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</p>	<p>50 millimeters of water pressure</p>	<p>25 millimeters of water pressure</p>	<p>100 millimeters of water pressure</p>	<p>5 millimeters of water pressure</p>
<p>45</p> <p>1</p>	<p>The minimum concentration of a vapor in air which can form an explosive mixture is called the</p>	<p>auto-ignition point</p>	<p>flash point</p>	<p>lower explosive limit (LEL)</p>	<p>threshold limit value (TLV)</p>

46	1	<p>What are the effects on human body when exposed to CO2 content of 3 percent ?</p>	<p>No significant effect</p>	<p>Breathing is strenuous with sweating and bad headache</p>	<p>Breathing is deeper and slight headache may occur</p>	<p>Severe headache and breathlessness</p>
47	1	<p>In firefighting the term PROTECTING EXPOSURES means</p>	<p>protecting firefighters from the direct exposure to heat</p>	<p>keeping flames from burning at the tank vents</p>	<p>protecting exposed area of the superstructure from flames</p>	<p>taking measures to prevent the spread of fire from the involved compartment to an adjacent compartment</p>
48	1	<p>Dry chemical extinguishing agents extinguish a fire by</p>	<p>cooling the fuel below ignition temperature</p>	<p>smothering and removing the oxygen from the fuel</p>	<p>breaking up the molecular chain reaction</p>	<p>removing the fuel by absorbing the heated vapours</p>
49	1	<p>When an electrical fire has been extinguished with a dry chemical agent, there is always a possibility of the</p>	<p>machinery suffering thermal shock damage</p>	<p>fire being rekindled by spontaneous combustion</p>	<p>electrical contacts or relays being rendered inoperative</p>	<p>chemical crystals suffocating the firefighter</p>

50	1	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.
51	1	Fire dampers prevent the fire spreading through the process of	convection	conduction	radiation	direct contact
52	1	Which of the following is least likely to cause the ignition of fuel vapours?	Static electricity	An open running electric motor	Loose wiring	Explosion proof lights
53	1	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 its surface.	is corrosive and a hazard to fire fighters	Conducts electricity

54	1	<p>Which of the following statements is true concerning carbon dioxide when used as a fire extinguishing agent?</p>	<p>Carbon dioxide is corrosive when exposed to fire.</p>	<p>Carbon dioxide should be applied slowly to a large engine room fire.</p>	<p>Its total cooling effect is far greater than water.</p>	<p>Its smothering effect is excellent for class B fires.</p>
55	1	<p>The "flammable limits" of an atmosphere are the</p>	<p>two temperatures between which an atmosphere will self-ignite</p>	<p>upper and lower percentage of vapor concentrations in an atmosphere which will burn if an ignition source is present</p>	<p>upper and lower pressures between which an atmosphere will not burn</p>	<p>two temperatures between which an atmosphere will burn if an ignition source is present</p>
56	1	<p>For which of the listed classes of fire combinations would carbon dioxide be most suitable as the extinguishing agent?</p>	<p>Class "A" and class "B"</p>	<p>Class "B" and class "C"</p>	<p>Class "A" and class "C"</p>	<p>Class "C", class "D", and class "E"</p>

57	1	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.
58	1	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
59	1	Which of the following conditions are true concerning shipboard fire 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.

60	1	Which of the following signals represents the emergency signal for a fire aboard 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
61	1	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
62	1	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

63	1	The areas protected by fixed local application fire fighting system(Hypermist) for machinery are	Boiler Fronts	The fire hazard portion of incinerators	Purifiers for heated fuel oil	All of the above
64	1	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.
65	1	The explosive range of a mixture of flammable vapours 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
66	1	A fireman's outfit carried onboard cargo vessels, must have	canister-type gas mask	fresh-air breathing apparatus	self-contained breathing apparatus	combustible gas indicator

67	1	<p>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?</p>	<p>Manually releasing the bottles in groups of four</p>	<p>CO2 pressure from the pilot cylinders.</p>	<p>Steel wire trigger lines provided to all bottles in the main bank</p>	<p>Remote pull cables provided to each group of four bottles in the main bank.</p>
68	1	<p>Choose the correct statement regarding the supply of the foam in fixed deck foam system in tankers.</p>	<p>0.6 l/min per square metre of cargo tanks deck area, where cargo tanks deck area means the maximum breadth of the ship multiplied by the total longitudinal extent of the cargo tank spaces</p>	<p>3 l/min per square metre of the area protected by the largest monitor, such area being entirely forward of the monitor, but not less than 1,250 l/mm</p>	<p>6 l/mm per square metre of the horizontal sectional area of the single tank having the largest such area</p>	<p>All of the above</p>

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<p>If a fire occurs in the boiler room as a result of a leaking fuel line, you should FIRST</p>	<p>notify the engineer on watch</p>	<p>isolate and secure the piping</p>	<p>throw sand on the fire</p>	<p>extinguish the fire using a combination nozzle with applicator</p>
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<p>The combined fan discharge rate in an inert gas system is related to the</p>	<p>shoreside loading rate</p>	<p>maximum cargo pump discharge rate</p>	<p>boiler forced draft fan rate</p>	<p>size of the largest cargo tank</p>
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OP5

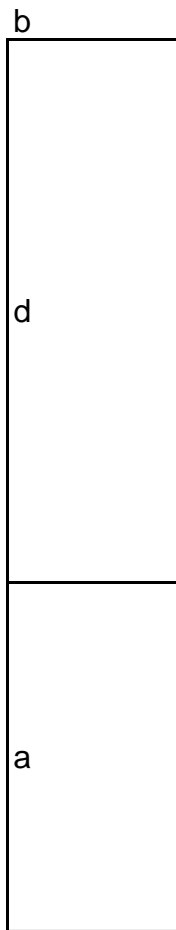
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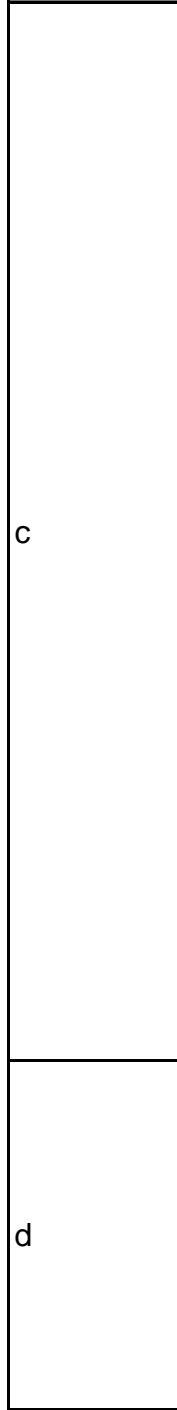
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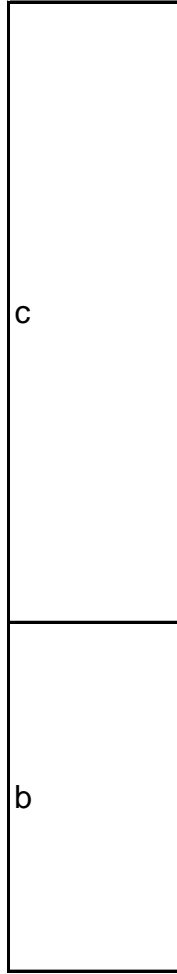
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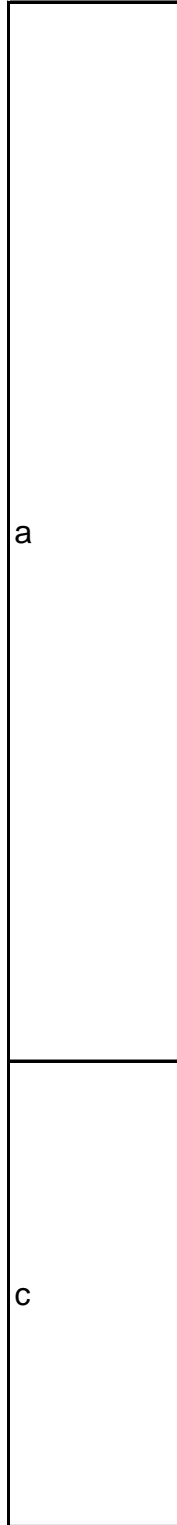
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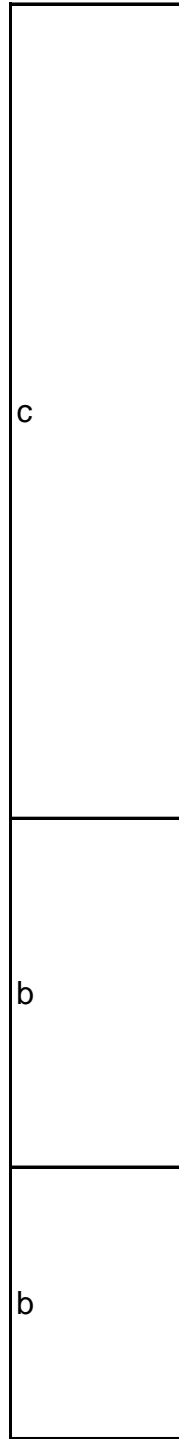
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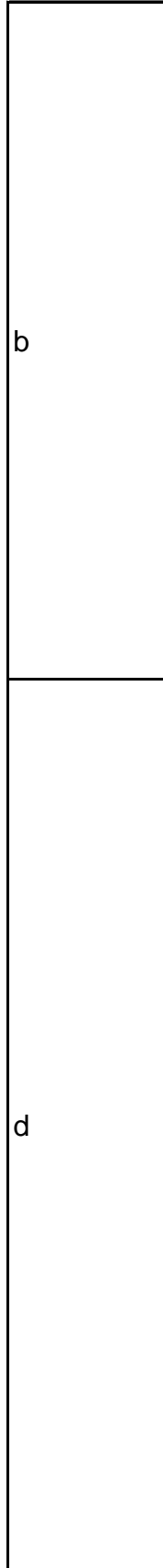
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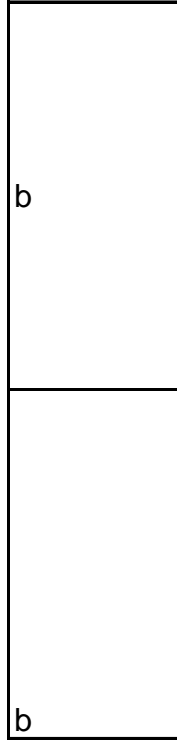
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