GUÍA DE ESTUDIO - JEFE DE MAQUINAS						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
PERSONAL SAFETY & SOCIAL RESPONSIBILITIES						
1	What is a ship's contingency plan?		The plan for the next voyage.	The plan for maintenance and repair of safety equipment.	The plan for safety preparedness.	The loading plan for hazardous cargo.
2	In a distress situation, how many times or for how long should the emergency alarm signal be sounded?		3 times.	3 minutes.	Until the emergency is over.	Until all crew members and passengers have reported to their respective muster stations.
3	What should you do when you hear the ship's emergency signal?		Put on warm clothes and your lifejacket.	Ignore the signal unless you have been told there will	Telephone the bridge for advice.	Report to your muster station.
4	What is the international signal for "man overboard"?		Three short blasts on the whistle.	Three long blasts on the whistle.	Three long blasts followed by three short blasts on the whistle.	Repeated raising and lowering of arms.
5	What should you do first if you see a man fall overboard?		Release the nearest lifebuoy on the side he has fallen.	Inform the officer of the watch.	Alert other crewmembers and try to keep him or the lifebuoy in sight.	Dive into the sea after him to attempt a rescue.
6	Where would you find details of your tasks and duties in case of an emergency?		In the muster list.	On posters at the lifeboat station.	In notices posted in the crew's cabins.	In notices posted in messrooms, recreation rooms, etc.
7	What is attached to the lifebuoy in the sign?		A light and die marker.	A light and E.P.I.R.B.	A smoke float and E.P.I.R.B.	A smoke float and light.

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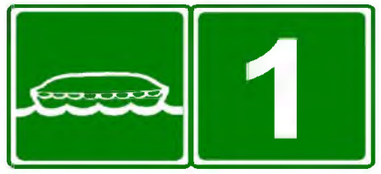
PERSONAL SAFETY & SOCIAL RESPONSIBILITIES						
8	What does this sign mean?		Life jackets are located to the left.	Put on your lifejacket.	Proceed to embarkation station.	Children's lifejacket.
9	Under STCW regulations, what must each new crew member do before commencing assigned duties?		Read all posted notices/regulations carefully.	Be familiar with safety procedures.	Locate his working area and working clothes.	Report to the master for signing on the ship's articles.
10	What life saving appliance is pictured here?		A lifeboat.	A rescue boat.	A liferaft.	A lifejacket.
11	When is it OK to take alcohol to excess?		At weekends if a day worker.	At birthday celebrations.	At no time.	Alone in your cabin after watch.
12	If you noticed that a piece of equipment is broken, what should you do?		Try to fix it yourself.	Get another AB to help you fix it.	Report it to the officer on watch.	Pretend that you have not noticed that anything is broken.
13	What does this sign indicate?		A lifeboat embarkation point.	A muster station.	A passenger holding area.	A crew messroom.

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PERSONAL SAFETY & SOCIAL RESPONSIBILITIES						
14	What would you expect to find near this sign?		Embarkation ladders.	Liferafts.	Emergency radio.	Escape shute.
15	What kind of liferaft is shown in this sign?		A rigid liferaft.	A disposable liferaft.	A davit launched liferaft.	A liferaft at the bow.
16	What does this sign mean?		Embarkation ladder.	This way to emergency exit.	This way down.	Escape shute.
17	What should you use to remove paint from your hands?		White spirit or turpentine.	Tallow or a greasy material.	Patented paint stripper.	Industrial hand cleaner.
18	You are working close to someone who is welding. You should avoid.....		touching the person.	looking at the welding arc.	touching any metal surface.	using any electric tools.
19	What is "hot work"?		Welding or cutting with a torch.	temperature goes above 45°C.	hot that an air blower is needed.	strenuous that it becomes dangerous.
20	Before you start painting an electric motor, you should....		switch it off.	make sure the coupling guard is in	wedge a steel bar under the coupling to ensure	ask the electrician to isolate it.

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PERSONAL SAFETY & SOCIAL RESPONSIBILITIES						
21	One of the gases, important for life, in the air that we breathe is called.....		chlorine.	acetylene.	hydrogen.	oxygen.
22	When must you wear breathing apparatus?		When entering a space suspected to be deficient in oxygen.	When spray painting or grit blasting.	When cleaning holds after a grain cargo.	All of the other answers apply.
23	When is a "permit to work" required?		For all work where a person is alone.	Before starting hazardous jobs.	For all work out of the sight of an officer.	All of the other answers apply.
24	How would you send a cluster light down into a cargo hold?		By the electric cable.	Carry it down over your shoulder.	Lower it on a line.	Drop it down to an assistant.
25	People should be protected from the rotating parts of machinery by....		vents.	lighting.	reflective tape.	guards.
26	When you are working on staging, what should you wear to protect yourself from a fall?		A safety helmet.	A safety harness and lifeline.	Safety shoes and gloves.	Knee and elbow pads.
27	What action would you take if a defect developed while using any lifting gear?		Proceed very carefully.	Stop and report the defect.	Report the defect at the end of the working day.	Return the equipment and use a replacement.
28	When engaged in deck maintenance work or mooring operations, what sort of gloves should be worn?		Rubber or synthetic gloves.	Leather palm gloves.	Heat resistant welders' gloves.	Light cotton gloves.
29	Which of these statements is NOT correct with reference to skin care?		Contact with oil on the skin can cause dermatitis.	Oil can block skin pores and cause rashes.	Oil and gasoline on the skin can cause skin cancer.	Kerosene is good for cleaning the skin.
30	What kind of rubbish are you permitted to throw overboard in port?		Anything which sinks.	Nothing at all.	Anything which is not oily or greasy.	Food scraps from the galley.

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Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
	PERSONAL SAFETY & SOCIAL RESPONSIBILITIES					
31	Used engine oil may be properly disposed of by....		draining it into the bilges.	discharging it into the dockside oil waste station.	pumping it over the side.	dumping it into a fuel oil tank.
32	Which of these items of safety equipment must be worn during anchoring operations?		A life jacket.	Safety goggles.	A respirator.	Rubber gloves.
33	Which colour is generally used on labels and elsewhere, to show hazards and dangers?		Red	Green	Yellow	Black
34	What must you wear when using a portable electric grinder?		Rubber gloves.	Ear muffs.	A respirator.	Safety goggles.
35	You are about to cross the deck when a load of pipes is lifted by a crane. What should you do?		Wait until the load is completely clear of your path.	Cross the deck quickly, watching it in case it falls.	Call to stop the lift, then cross the deck.	Put on your safety helmet and walk across carefully.
36	Which colour is generally used on labels and elsewhere to suggest safe conditions?		Blue	Yellow	Black	Green
37	When tightening a nut, what tool is it best to use?		The correct sized open spanner.	The correct sized ring spanner.	An adjustable wrench.	A stilson or pipe grip.
38	What precaution should you take when you are painting in a confined compartment?		Ventilate the compartment well, before and during your work.	Close the compartment to keep dirt or dust from sticking to the paint.	Heat the compartment to dry the paint quickly.	Any of the other answers may apply.
39	When you are operating a grinding wheel, you should always use...		goggles or an eye shield.	gloves.	a tool holder.	a cooling water spray.

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	PERSONAL SAFETY & SOCIAL RESPONSIBILITIES					
40	How would you send tools down a hold or tank?		Lower in a bag or bucket.	Throw down one-by-one.	Carry in your hand.	Carry in your pockets.
41	In order to prevent injury when handling mooring lines, always make sure your feet are.....		one in front of the other.	as close together as possible.	out of the bight of the line.	spread out as far as possible so the line can pass between them.
42	Why must you always take extra care when working close to an air compressor?		The electric motor may be "live".	The relief valves are programmed to open at regular intervals.	It may start automatically without warning.	The unloading gear may lift, releasing high pressure air.
43	Which side of the vessel is the "lee side"?		The side of the vessel exposed to the wind.	The port side.	The side of the vessel sheltered from the wind.	The starboard side.
44	If you have rescued a shipmate who has inhaled H2S (Hydrogen Sulphide), and they are breathing, what should you do?		Leave the victim alone.	Administer oxygen immediately.	Call the bridge for assitance	Carry him to the ships hospital
45	Dangerously protruding objects should be highlighted by which of the following colour combinations?		Red and white.	Yellow and black.	Orange and white.	Blue and green.
46	Tanks which have been closed for some time, even when they are clean, are very dangerous to enter. Why?		Bacteria in the tank can generate poisonous gases.	Rusting uses up the oxygen in the tank.	Traces of past cargoes build up a toxic atmosphere.	Any of the other answers may apply.
47	Where can a ship dispose of waste plastic at sea?		Anywhere outside the 3 mile limit.	Outside special areas.	Beyond 25 miles offshore.	Disposal of plastics is not allowed anywhere at sea.
48	Which of these is a safe means of access to cargo holds?		A mechanical hoist.	A long aluminium ladder.	A rope ladder.	A permanent fitted ladder.

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Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
	PERSONAL SAFETY & SOCIAL RESPONSIBILITIES					
49	Before you lift a load, what is the most important thing you should do?		Take care of any sharp edges or greasy surfaces which could cause you to lose your grip.	Put on safety shoes.	Make sure you can manage it alone; if not, get help.	Put on a pair of gloves.
50	"short term" loss of memeory can be a problem as most people have an immediate memory span for a limited number of items. Is that number?		around 3 items.	around 10 items.	around 5 items.	around 7 items.
51	What should you always assume when a crew member collapses in a confined space?		That you must go and rescue the person immediately.	The atmosphere within the space is unsafe for humans.	The person has suffered a heart attack.	The person has been overcome by exhaustion.
52	While working on a very hot day, you begin to feel bad and stop sweating. What should you do?		Put on light cotton clothing and go back to work when you feel rested.	Stop working, inform your supervisor or an officer, and report to the ship's hospital for treatment.	Drink plenty of iced water.	Have a short rest, then go back to work.
53	When working over the ship's side on staging, what other equipment besides a safety harness should be worn ?		No other equipment is necessary.	Box type or wrap around goggles.	A life jacket.	Waterproof overalls.
54	When must you wear a safety harness?		When working in the lower hold.	When working aloft or over the side of the ship.	When at mooring stations.	When opening hatches.

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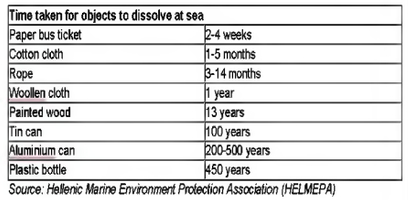
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
	PERSONAL SAFETY & SOCIAL RESPONSIBILITIES					
55	A Bridge Watch-keeper sees a faint green light to port and believes this is the light of a distant ship. However, it turns out to be the light on a nearby yacht! What is the classification of such an error?		Perceptual error.	Stress induced error.	Representation error.	Planning error.
56	The entries in the Oil Record Book must be...		in the language of the Captain and in English or French.	in the language of the crew and in English or French.	in the official language of the Flag state and in English or French.	in any language comprehensible by the Port State Control officers.
57	All oily water discharge must be monitored to ensure that the oil content is not greater than the permitted limit, this is...		10 parts per million.	15 parts per million.	25 parts per million.	50 parts per million.
58	If you are operating under Skill-based behaviour which of the following would NOT be applicable?		The conscious brain is not involved.	Requires a lot of mental resources.	Usually the commonest type of behaviour on the bridge.	Occasional errors due to slips and lapses.
59	Bullying and harassment can be a result of which factor or factors?		Shipboard policy	Prejudice	Living at sea.	Boring conditions onboard
60	According to HELMEPA, how many years does it take for a tin can to disintegrate in the sea?		1 month	1 year	10 years	100 years
61	When preparing to use breathing aparatus, which of the actions listed is not a requirement.		The face mask must be checked and adjusted to ensure it is airtight.	The pressure gauge must be checked.	The audible low pressure alarm should be checked.	The total length of any air hose should not exceed 36 metres.

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	PERSONAL SAFETY & SOCIAL RESPONSIBILITIES					
62	When an enclosed space entry is proposed, what is the most important consideration?		That the Master should be informed.	That the company head office is consulted before a decision is taken.	That a competent person must consider all the facts and decide how safe the space is.	That the back-up team has been well trained.
63	In addition to a commitment to safety and a well trained and experienced crew, what is the key factor in helping to reduce accidents?		Use of a single language on board.	A management style appropriate to today's technology.	Tours of duty not exceeding six months duration.	The most up-to-date electronic equipment in the Engine Room and on the Navigation Bridge.
64	What is the accuracy of the normal personal gas monitor?		1	+/- 50%	+/- 5%	+/-15%
65	What reason is given for the failure of the first officer and flight engineer to intervene when the captain of the plane made errors which led to the collision?		The flight crew were tired at the time of take-off.	The crew had been drinking at a party the previous evening.	The captain's autocratic style prevented them from stopping the accident.	The incident was unavoidable as accidents will inevitably happen in the high risk transport industry.
66	An example of classic bullying behaviour is:		giving you more work than your colleagues.	leaving you to make your own mistakes.	telling you what you are doing wrong.	Reporting your serious mistakes to the office
67	Which MARPOL Annex deals with garbage and waste disposal from ships?		Annex I	Annex II	Annex IV	Annex V
68	In an emergency, you can enter an enclosed space as long as the oxygen level is:		15%	19%	21%	24%
69	If the accommodation is filling with smoke and fumes, you should:		get out of the space without delay; if necessary by crawling on hands and knees.	look for the nearest fire extinguisher, and take immediate fire fighting action.	search for others who may be in urgent need of assistance.	switch off any electrical appliances before making an escape from the area.

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Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
			PERSONAL SAFETY & SOCIAL RESPONSIBILITIES			
70	Above what concentration does H2S (Hydrogen Sulphide) begin to deaden the sense of smell?		50ppm	100ppm	500ppm	700ppm
71	At what concentration of H2S should breathing apparatus be worn?		5ppm	15ppm	20ppm	100ppm
72	What would be your most important reaction on discovering a fire?		Closing doors and windows to remove the air supply.	Tackle the fire with the nearest fire extinguisher.	Find the seat of the fire.	Report it by raising the alarm.
73	Ships may only discharge processed bilge water from machinery spaces into the sea if certain very specific criteria are being met. Which of those listed is correct?		The ship is sailing within a special area.	The ship is proceeding en route.	The oil content of the effluent without dilution does not exceed 100 ppm.	The ship has in operation equipment as required by Regulation 16(5) of Annex I to MARPOL.
74	What is the advantage of a bridge management style which encourages a "team work" approach where everyone is aware of what is going on, where everyone contributes and feels free to speak up if something is not right?		Mistakes can normally be corrected before they become disasters.	This style saves time and money and places the ship operator in a competitive position in the market place.	Navigation requires an autocratic command structure. The team work approach does not apply to such conditions.	It allows the Master or Officer in Charge of the Watch to relax.
75	The Garbage Record Book must be open for inspection at all times and kept for a minimum of...		six months.	one year.	two years.	five years.
76	Before entering an enclosed space, the portable gas detector being used to check the atmosphere gives an unstable reading. What should you do?		Assume the reading is good enough and proceed with the entry.	Put the instrument back in the store and try again with another detector.	Replace the sensor, re-calibrate the instrument, and take the readings again.	Dispose the detector and try with a new one.

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PERSONAL SAFETY & SOCIAL RESPONSIBILITIES						
77	Whatever type of behaviour you are operating under, you will be prone to error. What is meant by perceptual confusion?		An error (slip) which arises because, in a routine set of actions, you believe the task doesn't require a lot of attention.	An error which you make frequently because you believe your action to be correct.	An error which arises because you take the easy way out.	An error which arises because the company procedures manual describes an action incorrectly.
78	Which MARPOL Annex deals with the Regulations for the Prevention of Pollution by Oil?		Annex I	Annex II	Annex IV	Annex V
79	What is the smell, referred to in the video, that is often associated with hydrogen sulphide?		vinegar	sweet perfume	garlic	bad eggs
80	In dealing with a main engine failure, the Officer of the Bridge Watch must follow the emergency response as detailed in the company's manual. This may include the actions listed. Which one does NOT belong?		Check the traffic position.	Inform the Master immediately.	Release the smoke signal.	Switch steering to manual and get a helmsman on the bridge.
81	What is the recommended way of reacting to bullying or harassment?		Confront the bully directly, or report the behaviour.	Ignore it	Ask to be transferred to another ship.	Assist the bully if the person being bullied seems to deserve it.
82	Outside Special Areas, how many nautical miles from the nearest land can oil or oily mixtures be discharged from an oil tanker?		15	35	50	75
83	Which standard regarding watch-keeping is addressed by both the STCW Convention and the STCW Code, in the respective sections titled "fitness for duty"?		The promotion of the participation of woman in the maritime industry.	Training in crisis management.	Enforced rest periods and the arrangement of watch systems.	Minimum requirements for certification.
84	If you see or suspect an injury to a person and think it may be caused by H2S (Hydrogen Sulphide) what should you do first?		Enter the space to assess the situation more fully.	Raise the alarm.	Increase the ventilation to the area.	Check the instructions on the Permit to Work.
85	By law every crew member must take part in at least one abandon ship and one fire drill every:		week.	month.	voyage.	6 months.

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PERSONAL SAFETY & SOCIAL RESPONSIBILITIES						
86	Why should a CO2 extinguisher be used with caution in confined areas?		It will increase the oxygen present in the confined area to a dangerous level.	It will not operate effectively in confined areas.	It may explode when exposed to heat.	It will displace the air and reduce the amount of oxygen available.
87	Which of the following is not a "Special Area" according to MARPOL 73/78 Annex I?		Mediterranean Sea area including the Black Sea	Baltic Sea area	Red Sea area	Caribbean Sea area
88	Which of the spaces listed does not require an enclosed space entry permit?		Double bottom tanks	Cofferdams	The galley cold store	Ballast tanks
89	Which do you think is the single most important action of those listed, from the point of view of safety?		That the Master is informed	That the company head office is consulted before a decision is made	That a competent person considers all the facts and decides how safe the space is	That the back-up team has been well-trained
90	Which of these levels of H2S can be lethal?		100ppm	300ppm	700ppm	All the above
91	Which of the following behaviours is acceptable?		Repeated sarcasm	Frequent abuse	Occasional loss of temper.	Spreading abusive rumours about ship mates
92	MARPOL Annex V came into effect from the 1st July 1997, for new ships, and from 1st July 1998 for all other vessels. It affects ships...		of 400 tonnes and above.	of 150 tonnes and above.	of 1500 tonnes and above.	carrying 12 or more passengers.
93	The disposal of plastics at sea is...		allowed anywhere outside the designated Special Areas.	strictly prohibited.	allowed as long as the ship is no less than 12 nautical miles from the coast.	allowed as long as they have passed through a comminutor.
94	Which statement does NOT belong in the list? When the officer on the bridge has been informed of a severe fire on board, they should carry out the following actions.		Sound the emergency alarm.	Notify all concerned of the seat of the fire.	Close ventilation, automatic fire doors and watertight doors.	Give the abandon ship signal.
95	If you are operating under Knowledge-based behaviour which of the following would NOT be applicable?		Makes use of prior experience.	Requires a lot of mental resources.	The conscious brain is not involved.	Frequent mistakes occur.

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PERSONAL SAFETY & SOCIAL RESPONSIBILITIES						
96	If you see or suspect an injury to someone in an enclosed space, what should you do first?		Enter the space to assess the situation more fully.	Raise the alarm.	Increase the ventilation.	Check the instructions on the Permit to Work.
97	Where on board ship are you not likely to be in danger from H2S (Hydrogen Sulphide)?		Near vents and air ducts	In and near sewage holding tanks	Working in locker rooms	Working in the galley
98	The first stage in organising a drill is:		observation.	briefing.	preparation.	Compare how previous drill of same type worked
99	The "Human Element" is a complex multi-dimensional issue that affects both maritime safety and marine environmental protection. Which definition in your view best describes the meaning of the words "human element"?		The entire spectrum of human activities performed by ship's crews, shore based management, regulatory bodies and other relevant parties.	A structured approach for the proper consideration of human element issues.	The human errors we make and which lead to maritime disasters.	The findings from marine incident investigations.
100	For which of the emergencies listed should regular drills be held?		Man overboard	Abandon ship	Enclosed space rescue	All of the above
101	Where is H2S not normally found in nature?		oil wells	stagnant water	open fields	marshland
102	The sea accounts for approximately what percentage of the earth's surface?		30%	50%	60%	70%
103	The most important task of the person supervising the entry is to ensure that:		a fully equipped back-up team is ready to provide assistance if required.	the person entering has first passed a drug and alcohol test.	the person entering has had sufficient rest.	the weather conditions are suitable for the task in hand.

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			PERSONAL SAFETY & SOCIAL RESPONSIBILITIES			
104	Before entering an enclosed space for maintenance, the portable gas detector being used to check the atmosphere gives an unstable reading. What should you do?		Assume the reading is good enough and proceed with the entry.	Put the instrument back into the store and try again with another detector.	Replace the sensor, re-calibrate the instrument, and take the readings again.	Dispose the detector and try with a new one.
105	Those on shore and those at sea must work together, in synergy, to achieve their objectives. What sentence best describes the meaning of the word "synergy"?		It means ship and shore staff working as a team.	It means working in a way which ensures that the whole result is better than simply adding together the results of the ship and shore teams.	It means working for an organization which respects the efforts of each individual crew member.	It means a management style where each person gets on with the job and does not interfere with the work of others on board or on shore.
106	What is a good way to prevent stress building up even at times of intense activity?		Take the day off.	Report that you are not feeling well.	Have a good argument to get the stress out of your system.	Humour and conviviality.
107	MARPOL Annex VI concerning Air Pollution from ships specifies a global cap on the sulphur content of fuel oils, the proposed figure is...		1.5%	2.5%	4.5%	5.0%
108	What type of extinguisher is most suitable for dealing with fires involving carbonaceous materials?		CO2 (Carbon Dioxide)	Dry powder	Foam	Water
109	If you have to abandon ship what type of clothing is best?		Dress lightly so that you can move about un-hindered by heavy clothing.	Put on extra clothing, preferably with a waterproof layer on top.	It makes no difference what you wear.	Clothing makes no difference as long as you don't wear heavy boots!
110	How many members of a lifeboat crew must know how to start the engine?		1	2	4	All of them

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	PERSONAL SAFETY & SOCIAL RESPONSIBILITIES					
111	To what degree are gas detector tubes accurate?		+/- 5%	+/- 20%	+/- 30%	Totally accurate
112	What is a "hot work" permit?		A permit allowing seafarers to work on deck under direct sunlight.	A permit allowing galley staff to start up the galley equipment.	A permit allowing engineers to fire up the main boiler.	A permit issued to ensure correct procedures are followed when hot work is being carried out.
113	If you are operating under Rule-based behaviour which of the following would NOT be applicable?		Errors usually due to application of the wrong rule or wrong application of a good rule.	Based on sets of rules in the long-term memory.	Requires a high level of conscious action.	Frequent mistakes occur.
114	The term "segregated ballast" means...		a ballast system completely separated from the fuel oil system.	a ballast system completely separated from the cargo oil system.	a ballast system completely separated from the cargo and fuel oil systems.	none of the above
115	What is the maximum number of people that should be permitted inside the lifeboat when it is being raised after a drill?		1	3	5	8
116	What is the International Civil Aviation Search and Rescue Manual? (IAMSAR Manual)		The company's emergency response manual as required by the SOLAS regulations on Search and Rescue Operations.	A manual published by the International Maritime Organization (IMO) to provide guidance during emergencies.	The IAMSAR manual gives details to merchant vessels on voluntary participation in weather forecasting on a world-wide basis.	A manual issued by the Class Society to give guidance to Masters for remaining in compliance with SOLAS and MARPOL requirements.

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PERSONAL SAFETY & SOCIAL RESPONSIBILITIES						
117	What is a SITREP?		It is the International Search and Rescue Response Programme.	It is a Standard Format for Search and Rescue Situation Report.	It is the Maritime Search and Rescue Recognition Code.	It is the Mission Co-ordinator for Search and Rescue operations.
118	What is the "muster list"?		A list that specifies details of the general emergency alarm, action to be taken by the crew, & specifies how the order to abandon ship will be given	A crew list prepared prior to arrival in port giving full details of all persons on board	A list which specifies the environmental protection and emergency duties of the senior officers on board ship	A list which specifies victualling requirements for the forthcoming voyage
119	Where on board would you look for the muster list?		The muster list must be displayed in your cabin, and you must sign it to show you have understood the instructions on it	The muster list must be given to you immediately after joining your ship	The muster list should be displayed at the boarding gangway	Muster lists must be put up in prominent places throughout the ship, including the navigation bridge, engine room and crew accommodation spaces

GUÍA DE ESTUDIO JEFE DE MAQUINAS	
PERSONAL SAFETY & SOCIAL RESPONSIBILITIES	
ANSWERS	
1	C
2	D
3	D
4	B
5	A
6	A
7	D
8	D
9	B
10	B
11	C
12	C
13	B
14	B
15	C
16	A
17	D
18	B
19	A
20	D
21	D
22	A
23	B
24	C
25	D
26	B
27	B
28	B
29	D
30	B
31	B

GUÍA DE ESTUDIO JEFE DE MAQUINAS	
PERSONAL SAFETY & SOCIAL RESPONSIBILITIES	
ANSWERS	
32	B
33	A
34	D
35	A
36	D
37	B
38	A
39	A
40	A
41	C
42	C
43	C
44	B
45	B
46	D
47	D
48	D
49	C
50	D
51	B
52	B
53	C
54	B
55	C
56	C
57	B
58	B
59	B
60	D
61	D
62	C

GUÍA DE ESTUDIO JEFE DE MAQUINAS	
PERSONAL SAFETY & SOCIAL RESPONSIBILITIES	
ANSWERS	
63	B
64	D
65	C
66	A
67	D
68	C
69	A
70	B
71	C
72	D
73	D
74	A
75	C
76	C
77	A
78	A
79	D
80	C
81	A
82	C
83	C
84	B
85	B
86	D
87	D
88	C
89	C
90	D
91	C
92	A
93	B

GUÍA DE ESTUDIO JEFE DE MAQUINAS	
PERSONAL SAFETY & SOCIAL RESPONSIBILITIES	
ANSWERS	
94	D
95	C
96	B
97	D
98	C
99	A
100	D
101	C
102	D
103	A
104	C
105	B
106	D
107	C
108	D
109	B
110	D
111	C
112	D
113	D
114	C
115	B
116	B
117	B
118	A
119	D