

OIC - EW: COMPETENCE 3

Use internal communication systems

1	All ships with periodically unattended machinery plants shall, in addition to the general alarm required by Coast Guard Regulations (46 CFR), be provided with a/an :			
	engineer's assistance- needed alarm	accommodation space communication system	personnel alarm	All of the above
2	By DUAL WATCH in maritime VHF- communication is understood:			
	automatic reduction of transmitting power	the possibility to keep radio- contact with two or more stations simultaneously	to keep a listening watch on two channels more or less simultaneously	None of the above
3	Channel 70 for digital selective calling for Distress, Safety and Calling frequency operate at:			
	158.526 MHz	157.526 MHz	156.526 MHz	159.526 MHz
4	In maritime radio-communication by "low power" given by a nautical phone is meant a transmitting power of:			
	0.5 – 1.0 watt	1.0 – 1.5 watt	0.5 watt maximum	2.0 – 2.5 watt
5	International NAVTEX service means the coordinated broadcast and automatic reception on ___ of maritime safety information by means of narrow-band direct-printing telegraphy using the English language.			
	518 KHz	2182 KHz	518 MHz	500 MHz
6	On board an accident happened. Urgent radio- medical advice is needed. We choose the category ___.			
	Routine	safety	urgency	security
7	One wishes to have a telephone conversation with a person whose name is known. This is what is called_.			
	a personal call	a collect call	a direct call	a private call
8	A VHF transmission range is mainly restricted by:			
	the curvature of the surface of the earth	reflection by the ionosphere	the length of the aerial	atmospheric condition

9	Automatic amplifier regulation is used to:			
	reduce noise if there is no signal	reduce distortion of the strong incoming signal	reduce distortion of weak incoming signals	increase incoming signal
10	By non-reduced transmitting power in VHF is meant in a power between:			
	1 – 6 watt	5 – 10 watt	6 – 25 watt	25 – 50 watt
11	Calls, announcement and conversations from one station to another on board should be as brief as possible and consistent with_____.			
	Intelligibility	clarity	understandability	loudness
12	For the connection between VHF and antenna must be used:			
	a three vein cable with earth-connection	a coax cable of proper impedance	a copper wire of sufficient diameter to minimize loses	an arbitrary coax cable
13	How should the letter "D" be pronounced when spoken on the radiotelephone?			
	DUKE	DA VID	DONKEY	DELL TAH
14	In making VHF communication or test transmission you must:			
	first tap on the mike several times, but not more than ten times	identify yourself with your call sign and /or ships name	with DSC use, first broadcast the carrier wave for at least three seconds	All of the above
15	In shore-ship use, what is useful range of VHF?			
	About 30-70 miles "Line of sight"	About 40-70 miles "Line of sight"	About 30-70 miles "Line of sight"	About 50-70 miles "Line of sight"
16	The legal type VHF-antenna has a length of:			
	7 meters	3.5 meters	1 meter	10 meters

17	The button or switch “dimmer” of a mariphone serves:			
	to suppress the noise	to regulate the light	to regulate the transmitting power	All of the above
18	The carrier frequency is also given as _____.			
	suppressed frequency	carrier frequency	assigned frequency	frequency identity
19	The holder of ship low power radiotelephone operator's permit is authorized to operate equipment or station using:			
	F4 emissions	A1 emissions	A3 of F2 emissions	A3 or F3 emissions
20	The maritime radio system consisting of a series of coast stations transmitting coastal warnings is called:			
	NAVTEX	NAVAREA	SAFESEA	HYDROLANT/H YDROPAC
21	The MF-band is in the frequency range_____:			
	30 - 300 kHz	300 - 3000 kHz	3 - 30 MHz	3 - 30 THz
22	The portable walkie talkies required to be carried by GMDSS regulations should have which channels as a minimum?			
	Channels 6, 13 & 16	Channel 16 only	Channels 13 & 16	Channels 6 & 16
23	The presence of a VHF-installation is primarily intended to:			
	take part in harbour traffic	enhance the safety of lives at sea	take part in public traffic	take part in all traffic
24	The responsibility for the transmitting equipment lies with the:			
	ship owner	master	user of the installation	charterer
25	The sound-level of the speaker on e.g. an MF/HF radiotelephony installation is adjusted with___.			
	AF-Gain	RF-Gain	can not be adjusted	AM-Gain

26	The squelch on the control panel of a VHF-sat serves to:			
	adjust the threshold level for admitting signals and refusing noise	adjust the sound level of the signal received	to suppress noise	to suppress background noise in the wheelhouse when transmitting
27	The type-indication of the radio set is mentioned in_:			
	the survey of equipment	the equipment appendix	the safety certificate	radio license
28	The VHF radiotelephone calling/safety/distress frequency is:			
	156.6 MHz (channel 12)	156.7 MHz (channel 14)	156.65 MHz (channel 13)	156.8 MHz (channel 16)
29	The VHF radiotelephone frequency for Channel 14 is:			
	156.8 MHz	156.7 MHz	156.75 MHz	156.80 MHz
30	The VHF radiotelephone frequency for Channel 16 is:			
	156.0 MHz	156.75 MHz	156.8 MHz	156.85 MHz
31	The wave length is_____.			
	proportional to the frequency	inversely proportional to the frequency	independent of the frequency	direction of frequency
32	The wavelength of a radio-signal reflected against the F-layer may be_____:			
	15 cm	1.5 m	15 m	1.5 cm
33	To make a "call-request" one should_____:			
	select the telex in off-line position	select the telex in on-line position	select the ID of the NCS	select the telex in stand-by position
34	When onboard channel 16 is used for a shore radio-connection, you always work:			
	semi-duplex	duplex	simplex	triplex

35	What do you call the communication within the ship's emergency organization or communication within the shore emergency response team?			
	Internal communication	Give the vessel a wide berth as she is carrying dangerous goods	Shore to ship communication	Shipboard communication
36	What is the main purpose of a radio transmitting installation onboard ____:			
	to enhance the safety of lives at sea	safe navigation and internal communication	public traffic	all traffic
37	What is the minimum number of portable two way VHF walkie talkies for use in survival craft, that should be carried onboard vessels which comply with GMDSS regulations?			
	3 sets	2 sets	4 sets	5 sets
38	What is the secondary purpose of a radio installation onboard?			
	To take part in public traffic	To enhance the safety of lives at sea	To communicate in distress cases	To stand by for navigational warning
39	Which of the following types/sizes of vessels in international trade do not have to be fitted with a radiotelephone station?			
	Cargo ships below 300 tons gross	Passenger ships of less than 100 tons gross	Passenger ships carrying less than 36 passengers	Cargo ships of 300 - 1600 tons gross
40	Which one of the listed requirements regarding radiotelephone auto alarm do not correspond to present regulations? Automatic receiving equipment shall __.			
	in presence of atmospheric or interfering signals automatically adjust itself	as far as practicable give warning of faults preventing the apparatus from performing normal functions	be capable of withstanding vibration, humidity and temperature changes	be capable of withstanding variations in power supply voltages, and shall continue to operate under such conditions
41	Which wave length applies to a frequency of 2000 kHz?			
	150 meters	15 meters	1500 meters	200 meter

42	With a distress alert via an Inmarsat-A terminal it is recommended to use the telex-mode because:			
	All vessels in the Ocean Region concerned can read it	Wait three minutes and if no acknowledgment is heard from a coast station you should relay	The telephone is slower and more prone to interference	Any of the above
43	With the DCS format specified geographical area call besides a reference position the number of the full degree difference in longitude and latitude must be fed in:			
	Westerly and northerly direction	An updated copy of the "Wet op de telecomunicatiev oorzieningen"	Easterly and northerly direction	Southerly and easterly direction
44	With the squelch mode on the VHF:			
	range is increased	another channel is chosen	undesirable noise is suppressed	range is fixed
45	Within territorial waters the use of transmitters is prohibited. In general this does not apply for:			
	Inmarsat-C equipment	Relay the message immediately on 2182 kHz	HF-equipment	All of the above
46	You are making ship-to-shore telephone calls on VHF. You should use the:			
	VHF-FM service	External	Coastal harbor service	High seas service
47	You received a distress alert on HF Radio. What should you do?			
	Wait three minutes and if no acknowledgment is heard from a coast station you should relay the alert	The telephone can cause misunderstanding through language problems or wrong interpretations	No response is necessary providing the vessel is more than 24 hours away	Acknowledge receipt
48	A polarization of a radio wave is determined by a:			
	height of the aerial	length of the aerial	position of the aerial	width of the aerial

49	A radio-wave travels in the air at a speed of:			
	300.000 meters per second	300.000 kilometers per second	300.000 per kilometers per hour	300.000 meters per second
50	A VHF transmission range is mainly determined by:			
	the moment of propagation	the right position of the squelch-adjustment	the height of the aerial	length of the aerial
51	A wire aerial for an MF/HF –transmitter must be suspended between isolators:			
	to prevent contact with earth	to prevent burns when touching the aerial	to make the way for aerial currents as long as possible	the battery is low
52	According to the “Regulation and Restrictions” of the mariphone license, the mariphone:			
	may be taken off the ship temporarily, only if suitable measures are taken for the prevention of the use of the mariphone	may only be present at the place, as indicated in the license	apart from its position as indicated also be used in other places provided its call sign is at least transmitted once at the start and at the end of each transmission	None of the above
53	Acoustic feedback can arise:			
	because the loudspeaker works as a microphone	because outside noise is amplified by the loudspeaker in the microphone	because the volume adjustment of the speaker is too high	because the battery is strong
54	Before a mariphone is installed on board:			
	a letter of registration must be applied for	contribution must be paid	a license must be issued	the ship must pass the port state control inspection
55	By frequency is meant:			
	number of vibrations	time lapse of vibrations.	number of vibrations per unit of time	Any of the above

56	By the degree of selectivity of a receiver is meant:			
	ability to make weak stations audible	ability to distinguish weak stations from adjacent stronger stations	ability to make strong station audible	ability to distinguish strong stations from weak stations
57	By wave length is understood:			
	the distance travelled by a radio vibration in a period	the propagation speed of a radio vibration in free space	the propagation direction of a radio vibration	the propagation of wave signal
58	Due to the volume of traffic on the radio, you are unable to communicate with the vessel in distress. What action should you take?			
	Key the microphone three times in quick succession	Broadcast "Seelonce" immediately	Broadcast "Seelonce Distress"	Broadcast "Charlie Quebec Mayday"
59	For the VHF-antenna connection is used:			
	an arbitrary coax cable	a 50-ohm resistance coax cable	a properly insulated copper wire of sufficient diameter	a coax cable of proper impedance
60	In daytime, as a result of sunlight, the number of layers of ionization will:			
	increase	decrease	not change	vanish
61	In maritime communication two international treaties are primarily involved. They are:			
	Solas and its rules	Solas and the international treaty of far messaging	The IMO at London and the ITU at Geneva	Both international and local rules
62	In radiotelephone communications, the prefix PAN indicates:			
	the message following the prefix will be about the safety of navigation	the message following is a meteorological warning	a ship is threatened by grave and imminent danger and requests assistance	a calling station has an urgent message about the safety of a person

63	In radio-telex distress traffic preference is given to:			
	Direct telex	ARQ	ISS	IRS
64	In subjecting a metal to an axial pull, its_____can be found.			
	strength	main haul	breaking strength	elasticity
65	Long distance communication in the HF-bands depends on:			
	ionization layers	ground wave	satellites	dimmer setting
66	Modulation is_:			
	detecting frequencies	blending LF & HF signals	to enhance the side bands in relation to the carrier wave	controlling the wave signal
67	Moored in a harbour, transmitting with a mariphone is .			
	allowed in consultation with the harbour-master	not allowed	always allowed	sometimes allowed
68	What does MUF stand for?			
	highest possible frequency that will be reflected by the ionosphere	highest possible frequency that can be made with an HF-transmitter on board	most effective frequency , to make a connection with an HF- transmitter	mega/ultra high frequency
69	Of the AM-signal_____.			
	amplitude and frequency of the carrier wave are constant	amplitude is variable and frequency of carrier wave is constant	both amplitude and frequency of the carrier wave are variable	amplitude modulation
70	On which frequency are navigational and meteorological messages normally sent on the NAVTEX system?			
	518KHZ	2182KHz	214KHz	216KHz

71	Polarization of a radio wave means _____:			
	the direction of the electrical field	the beam-angle of a transmitting aerial	the propagation speed of the signal	transmission of radio wave
72	Radio waves used in satellite communication are not affected by ionosphere because _____.			
	the frequency of the radio waves is too high	a disc aerial is used	TDM-signals are used	the frequency of the radio waves is too very high
73	Squelch mode serves to suppress:			
	background noise in receiving a weak FM-signal	noise in absence of an FM-signal	noise in speech-breaks in an SSB-signal	noise in transmission
74	Pledge of secrecy applies ____:			
	for everybody	only for those who want to send and/or receive a message	only to certificate holders	for Management Level officers only
75	Radio signals in the HF channels propagate mainly:			
	through hops between the ionized layers and the earth	between the earth and satellites	along the curvature of the earth	in the ionosphere
76	Regulations require that any tankship making a voyage of over a 48 hour duration' must have certain tests conducted not more than 12 hours prior to leaving port. Meeting this requirement includes the testing of the:			
	means of communication between the bridge and engine room	fire pump relief valve	watertight door to the shaft alley	emergency lighting system
77	The "squelch" adjustment on the front panel of a mariphone serves to ____:			
	adjust the noise threshold of the mariphone receiver	limit the noise of the mariphone transmitter	adjust the transmitting power of the mariphone	None of the above

78	The call sign of a vessel is meant to:			
	be able to identify oneself	provide the certificate holder with unique identification	gain a quicker transit at bridges and locks	gain recognition
79	The HF-band is in the frequency range_____:			
	3 - 30 kHz	3 - 30 MHz	3 - 30 GHz	3 - 30 THz
80	The ID of an Inmarsat M station on board starts with:			
	1	3	5	7
81	The maximum range of a VHF radio-set from ship to ship at sea is_:			
	2 Nautical Miles	20 Nautical Miles	200 Nautical Miles	100 Nautical Miles
82	The obligation to identify oneself when using VHF is:.			
	only when sailing in a block area	only when navigating by radar	always	only when navigating in a heavily congested areas
83	The prescribed test of an approved portable VHF radio set (portophone) must be done once a_.			
	week	Month	year	day
84	The propagation of radio-signals in the VHF- band is:			
	almost rectilinear	dependent on the power emitted and the temperature of the atmosphere	dependent on the hour of transmission (day or night)	dependent on the weather condition
85	The recommended connection between antenna and VHF is:			
	coax cable	three vein cable	band cable	cable connection

86	The rule for having a radio transmitter license is internationally laid down in_____:			
	Radio Regulations	SOLAS	Search and rescue treaty of Hamburg	Association of Radio Users
87	The squelch on a mariphone serves__:			
	to suppress noise	to suppress background noise in the wheelhouse when transmitting	to increase or decrease the transmission range	to adjust volume
88	The transmitting power of the mariphone is adjusted by setting_____:			
	dual watch	squelch	high/low power	volume
89	The transmitting range of an HF transmitter is mainly determined by_____:			
	the transmitting power	the height of the transmitting antenna	the time of day in relation to propagation	atmospheric condition
90	The VHF radiotelephone frequency for Channel 13 is:			
	156.65 MHz	156.70 MHz	156.75 MHz	156.80 MHz
91	The VHF radiotelephone frequency for Channel 15 is:			
	156.0 MHz	156.7 MHz	156.75 MHz	156.8 MHz
92	The VHF-band is in the frequency range_____:			
	30 - 300 kHz	30 - 300 MHz	30 - 300 GHz	3 - 30 THz
93	The volume button of a mariphone controls _____:			
	the volume	the transmitting power	the squelch	the clarity of transmission

94	The wave length of a radio signal in the ether is mainly determined by ____.			
	Frequency	weather conditions	propagation speed	wave speed
95	To choose the HF-band, the time difference between 2 stations is_.			
	Irrelevant	is hardly relevant	is important	negligible
96	Via a coast-station radio medical advice is asked using NBDP. What command has to be given after ga+?			
	pan +	38 +	42 +	52 +
97	What is the calling and distress frequency on a single side band (SSB) marine radiotelephone?			
	1492 kHz	1892 kHz	2082 kHz	2182 kHz
98	What is the minimum number of portable two way VHF walkie talkies for use in survival craft, that should be carried onboard vessels which comply with GMDSS regulations?			
	3 sets	2 sets	1 set	There is no requirement to carry them.
99	What is the recommended connection between antenna and VHF?			
	band cable connection	three vein cable connection	coax cable connection	single vein cable connection
100	What is understood by assigned frequency?			
	frequency of the carrier wave	the upper side band (USB)	the frequency actually used by transmitter and receiver	Between high and low frequency
101	What is/are the content of table #1 of radiotelephony procedures?			
	Nature of distress in code from the International code of signals	Phonetic alphabets and figure spelling	Position in code from the International code of signals	All of the above

102	What is/are the content of table #2 of radiotelephony procedures?			
	Nature of distress in code from the International code of signals	Phonetic alphabets and figure spelling	Position in code from the International code of signals	All of the above
103	What is/are the content of table #3 of radiotelephony procedures?			
	Nature of distress in code from the International code of signals	Phonetic alphabets and figure spelling	Position in code from the International code of signals	All of the above
104	What should you include in the body of a radio message seeking advice for a medical emergency at sea?			
	the name and owner of the ship, its position and destination	The patient's name and next of kin	The patient's age, sex, nature of the emergency, pulse and length of illness, treatment given and diagnosis	All of the above
105	What statement is correct with frequency modulation?			
	Between high and low frequency	the frequency is constant	frequency modulation is often applied in the maritime VHF-range (band)	the amplitude fluctuating an LF-rhythm
106	When a licensed mariphone is replaced ____:			
	the old mariphone must be checked out and the new one must be checked in	nothing should be done, for a license was already issued	the seller must check in the set at the authority concerned	None of the above
107	When modulating the amplitude ____:			
	the amplitude is modulated	the carrier wave is modulated	the LF-vibration is modulated	the frequency is modulated
108	Which equipment must be tested NOT more than 12 hours prior to getting underway from a U.S. port when the voyage is to be of 48 hours or greater duration?			
	Steering gear	Emergency generator	All internal vessel control communications systems	All of the above

109	Which one of the following requirements regarding radio telephone stations do not correspond to present regulations?			
	While at sea the installation shall be maintained in a satisfactory condition	The radiotelephone station shall be located in the upper part of the ship, sheltered to the greatest extent from noise impairing reception of messages/signals	There shall be an efficient communication between the radio station and the bridge	An instruction card giving a clear summary of the distress procedure shall be displayed at the operators position
110	Which one of the listed entries in the radio log for radiotelephone station do not correspond to present regulations? Entries in the radio log shall include_____.			
	the condition and results of tests of the main radiotelegraph installation	the time when a listening watch begins	the time at which a listening watch is discontinued, and the reason	details of maintenance of batteries, including a record of charging
111	Which one of the listed requirements regarding portable radio apparatus for survival crafts do not correspond to present regulations?			
	Transmitter and receiver to be tested with intervals of not more than one month	The apparatus shall be capable of being dropped into the water without damage	The apparatus shall be readily portable and watertight	New equipment shall be as light-weight and compact as practicable
112	Which one of the listed requirements regarding radiotelegraph installations do not correspond to present regulations?			
	The installation shall include equipment for radiotelephone communication on distress frequencies in addition to working frequencies	The main installation shall include a main receiver, a main transmitter, radiotelephone distress frequency watch receiver and main source of energy	The reserve installation shall include a reserve transmitter, a reserve receiver and a reserve source of energy	A main and a reserve antenna shall be installed

113	Which one of the listed requirements regarding radiotelegraph stations do not correspond to present regulations? A radiotelegraph station shall be provided with ___.			
	direct access to the navigating bridge	spare parts, tools and testing equipment	either an electric inspection lamp or a flashlight	a reliable clock with a dial not less than 12,5 cm diameter, and marked to indicate silence
114	Which one of the listed requirements regarding two-way radiotelephone apparatus for survival crafts do not correspond to present regulations?			
	The apparatus shall be capable of being operated on VHF channel 16	While at sea, the equipment shall be maintained in satisfactory condition	The apparatus shall be operated from a battery of adequate capacity to ensure	The apparatus shall be capable of being operated on VHF channel 16
115	Which one of the listed requirements regarding VHF radiotelephone installations do not correspond to present regulations?			
	Cargo ships of less than 500 tons gross shall have the batteries located in the upper part of the ship	Controls for the channels required for navigational safety shall be immediately available on the navigating bridge,	Facilities should be available to permit radio communication from the wings of the bridge	As far as practicable, the antenna shall have unobstructed view in all directions
116	Which radio frequency/channels are reserved for emergency communications?			
	2182 kHz/VHF channel 16	A message of an urgent nature about the safety of a ship will follow	2182 kHz/VHF channel 6	2188 kHz/VHF channel 8
117	Which VHF channel should be used for intership navigation safety communications?			
	Ch. 13	Change course to keep clear of the vessel because she is maneuvering with difficulty	Ch. 12	Ch. 06
118	Which wave length applies to a frequency of 150 MHz?			
	20 cm	50 cm	200 cm	500 cm

119	Wire antenna of 12 meters long is probably _.			
	A MF/HF-antenna	A MF-antenna	An Inmarsat-antenna	An HF-antenna
120	With the squelch mode on the VHF:			
	Undesirable noises is suppressed	Ch. 16	Range is increased	Range is constant
121	With the VHF on board there has to be:			
	A license	Another channel is chosen	A document showing that the radio equipment has been firm or person	None of the above
122	Within territorial waters the use of transmitters is prohibited. In general this does not apply for___:			
	VHF-equipment	MF-equipment	HF-equipment	All of the above
123	You are approaching another vessel and see her signal flag "F" hoisted. What should you do?			
	Attempt to call the vessel on VHF radiotelephone because she is disabled	Delivers a message as atelegram	Stop your vessel instantly	Continue on your vessel course since the vessels is signaling for pilot
124	You are underway and hear a vessel continuously sounding her fog whistle. This indicates the Other vessel:			
	Is in distress	Emergency broadcast services	Desires a pilot	Is aground
125	You hear on radiotelephone the word "SECURITE" spoken three times. This indicated that			
	A message about the safety of navigation will follow	A VHS-antenna	The sender is in distress and requests immediate assistance	You should secure your radiotelephone
126	You want to send a DSC distress alert via the HF-band. You prefer the:			
	8 MHz band	12 MHz band	16 MHz band	18 MHz band