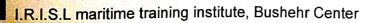
Standard Maritime

Communication

Phrases 1

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	Letters and Numbers List	· · · · · · · · · · · · · · · · · · ·	
Character	International code word	Pronunciation	
Α	Alfa - Alpha	AL FAH	
В	Bravo	BRAH VOH	
С	Charlie	CHAR LEE	
D	Delta	DELL TAH	
E	Echo	ECK OH	
F	Foxtrot	FOKS TROT	
G	Golf	GOLF	
Н	Hotel	HOH TELL	
1	India	IN DEE AH	
J	Juliett - Juliet	JEW LEE ETT	
K	Kilo	KEY LOH	
L	Lima	LEE MAH	
M	Mike	MIKE	
N	November	NO VEM BER	
0	Oscar	OSS CAH	
P	Papa	РАН РАН	
Q	Quebec	KEU BECK	
R S	Romeo	ROW ME OH	
J	Sierra	SEE AIR RAH	
' J	Tango	·2**	
	Uniform	TANG GO	
	Victor	YOU NEE FORM	
	Whiskey	VIK TAH	
	X-ray	WISS KEY	
	Yankee	ECKS RAY	
	Zulu	YANG KEY	
		Z00 L00	

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Letters and Numbers List

		_
Character	International code word	Pronunciation
0	NADAZERO	NAH-DAH-ZAY-ROH
1	UNAONE	OO-NAH-WUN
2	BISSOTWO	BEES-SOH-TOO
3	TERRATHREE	TAY-RAH-TREE
4	KARTEFOUR	KAR-TAY-FOWER
5	PANTAFIVE	PAN-TAH-FIVE
6	SOXISIX	SOK-SEE-SIX
7	SETTESEVEN	SAY-TAY-SEVEN
8	OKTOEIGHT	OK-TOH-AIT
9	NOVENINE	NO-VAY-NINER
DECIMAL	DECIMAL	DAY-SEE-MAL
POINT		
	The second of	
FULL	STOP	STOP
STOP		

Types of ships

Bulk Carriers are ships specially designed to carry homogenous unpacked cargo in bulk. Cargo such as coal, iron ore, grain .Bulk Carriers are commonly categorized by their size.



General Cargo Ships:

General Cargo Ships are capable of carrying different cargoes in bales, drums or in palletized form. They are usually small ships. They have multiple decks inside the cargo holds for segregation purposes.

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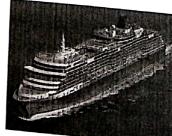
Container Ships:

Container Ships are ships designed to carry standard sized containers. Containers are stacked in the ship's holds as well as on the deck and secured to the ship using a locking mechanism. Two of the most common standard sizes of containers are the Twenty Foot (TEU) and Forty Foot (FEU) units. The capacity of a Container Ship is usually expressed by the number of Twenty Foot Equivalent Units (TEU) that can be



Passenger Ships:

These ships are used by passengers either for the purpose of travel between two ports or for pleasure. Some Passenger Ships are capable of carrying cars, vehicles and small quantities of cargoes along with the



Tankers:

Tankers carry liquids such as crude oil, petroleum products, various oils and liquid chemicals in bulk. This type of cargo is loaded in specialized tanks. Pipelines and pumps is provided to load and discharge the cargo. Depending on the type of cargo, tankers are further classified, for example: Crude oil tanker, Product tanker, Gas tanker and Chemical tanker.



Gas Tankers:

Gas Tankers are ships that carry liquefied gases such as butane and methane. These gases are kept in a liquid state in specially designed tanks maintained at very high pressure or very low temperature, or a combination of both.



Ro-Ro Ships:

RO-RO or Roll-On/Roll-Off Ships have large ramp doors at the bow or stern to allow vehicles to drive in and out of the ship from the jetty. These ships have many long and wide decks to allow cars and commercial vehicles to be loaded and secured safely.



Reefer Ships: Refrigerated Cargo Ships (Reefers) are designed to carry cargo that needs to be kept frozen or chilled; this includes fruits, meat, juices.

Heavy Lift Vessels: Ships that can load very heavy cargoes on the deck or in the cargo hold are known as Heavy Lift Vessels. They can carry a variety of unusual cargoes including heavy machinery, yachts, drilling rigs, barges and bridges. Their decks and hold tank tops are designed to withstand the high load density of cargoes

LASH: LASH (Lighter aboard Ships) carry large barges loaded with cargo. These barges are loaded and unloaded on to the ship using huge gantry cranes onboard the ships, alongside a jetty, or at anchorages. Livestock Carriers: Livestock Carriers are designed for transportation of animals and livestock like sheep, goats and cows. They have specially designed compartments for the carriage and care of the animals.

Departments onboard

In general, the ranking system on merchant vessels in mainly divided into following categories:

1. Deck Department

- **Engine Department** 2.
- **Catering Department** 3.

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از طرت The captain or master is the ship's highest responsible officer, acting on <u>behalf</u> of the ship's owner. The Captain (or Master) of the ship is at the top of all the ranks, holds the highest post of the ship's crew, and is accountable to the owner of that ship.

مستول

The Deck Department

- Chief Officer/Mate
- Second Officer/Mate
- Third Officer/Mate
- **Deck Cadets**

Deck Rating

- سرملوان <u>Bosun</u>
- Welder/Fitter/Carpenter
- Able Seaman (AB)
- Ordinary Seaman (OS)

chief officer; safty offices and

Chief Officer / First Mate: Chief Officer is the second responsible position after the Captain of the vessel. He acts as the Head of the deck department and mainly engages in the cargo affairs. He also supervises the vessel's crew and looks after the various deck operations. The Chief Mate is the ship security officer (SSO), and is concerned about the welfare of crew and passengers on board. Additionally, the correct working of the hull,

Second Officer/ Mate: He is the <u>primary</u> officer behind the navigational section of the vessel (Navigation, chart preparation and paperwork) and third-in-command. His main responsibility is the standard 12-4 navigation watch duty. Second Officer is known as medical officer

Third Officer/ Mate: he is appointed as the fourth-in-command. Usually, the Third Officer handles the standard 8-12 watch duty and mainly responsible for maintenance of LSA (Life Saving Appliances) and FFA (Fire Fighting Appliances) under supervision of chief Officer. assistant of the second

Deck Cadet: The role of a deck cadet is quite important on ships as he can be assistance to all the officers. He is basically new to the ship and is on ships for the training purpose. A newly appointed Deck Cadet needs to report to the Chief Officer (or Training Officer) of the ship. A Cadet must try to gain as much of knowledge as

Bosun: He takes care of the crew on the deck and also assists chief officer in daily routines of the ships. Able seaman (A.B): experienced ratings and is eligible to assist the deck department. They can do most of the

Ordinary seaman (O.S): OS is usually normal ratings with less or no work. He should be normally engaged on

- **Chief Engineer**
- Second Engineer

Carpenter (Deck Fitter)

LR.IS.L. Training Institute, Bushehr Center

- Third Engineer
- Fourth Engineer
- Fifth Engineer/ Engine Cadet
- Electrical Officer

Engine Room Rating

- Fitter
- Wiper /Oiler

Chief Engineer: Chief engineer is the head of the engineering department on a vessel. Chief engineer gives orders for operation and maintenance of ship's machinery system and is responsible for the engine room department.

He is technical advisor of master

Second Engineer: He is associated with the day-to-day activities in the engine room, and he is accountable to the Chief Engineer. He supervises the proper functioning of all engine room machinery systems and also assigns jobs to the other engine officers and crew. The Second Engineer generally keeps watch on the engine room, during the day time.

Third engineer: This is the next position after the Second Engineer, and is assigned jobs to look after machinery ordered by the chief engineer, along with daily watch keeping. He reports to the second engineer.

Fourth Engineer: This is the most junior rank in the engineering department. The Fourth Engineer is concerned about the correct working of the machinery systems assigned to him and also carries out watch keeping. He reports to the second engineer.

Fifth Engineer/ Engineering Cadet: Fifth engineer is a trainee under the Second Engineer officer, and he assists and learns while observing and carrying out activities in the engine room. He would accompany a senior officer (mostly second engineer) during the watch duty. All the engine room ratings report to the second engineer.

The Catering Department

- Cook (chief cook)
- Assistant Cook(Galley Boy)
- Steward

GALLEY DEP

CA/COOK

SAL-2 BO,

Cook: It is his duty to prepare meals regularly for the crew and passengers. He is also in charge of the food stores. The Cook also inspects the equipment needed to keep the ship clean and uncontaminated in the galley area.

Assistant Cook: He assists the cook in preparation of meals and managing provision.

Steward: The steward, is assigned task including serving meals on time, sweeping and maintaining the living quarters of the officers.

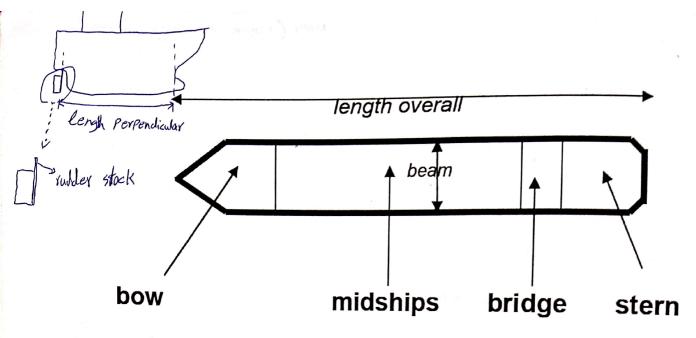
Ship parts

Accommodation

is living quarter

every where which even

Tive



Bow -Foreward End of the vessel Stern -after or Back End of vessel

Midship -at or near the middle point of a ship Length

Length over All (L.O.A)-the Length of ship measured from extreme forward End to aftermost point of

Bridge -The Bridge is the command center of the ship. It is usually the highest portion within the ship's superstructure. Navigation and command center of the vessel

Engine Room -The Engine Room is a space where the main and auxiliary engines are located.

Accommodation -The Accommodation consists of spaces onboard the ships which are set apart for the

Cabin - Cabins are the rooms or compartments for personnel use. A room or living compartment for Porthole-Portholes are the windows in the cabins.

Alleyway-The Alleyway, or Passageway, is the name for the enclosed corridors in the accommodation

Galley -The Galley is the kitchen area used for food preparation.

Mess Room-The Mess Room is the place where the crew eats their meals.

Funnel -The Funnel is the large exhaust pipe for the ship's engine room and machinery fumes.

Propeller - The Propeller is similar to a fan. Rotary motion of the propeller blades in the water provides

Rudder -The function of the Rudder is to steer the ship. The Rudder is usually located in the water flow

Monkey Island -The Monkey Island is the uppermost deck on the superstructure upon which the main

Forecastle (Foc'sle)-The Forecastle is the slightly raised structure at the forward part of the ship. It is a mooring station used for housing windlass machinery and as a storeroom. Windlass - The Windlass is the machinery for lifting and lowering the anchor cable.

Bulbous Bow-The Bulbous Bow is a protruding bow that is designed to break up the bow wave before it

Anchor -The Anchor is used to keep the ship fixed within a small area in the water. It gets its holding power due to its weight and design plus the added weight of the cable it is attached to.

Anchor Windlass - A windlass is a winch-like device used to assist in the raising of the anchor.

Superstructure -The Superstructure houses the crew accommodation, offices, stores etc.

Crane -The Crane is a machine for lifting heavy objects or cargo.

Main Deck-The Main Deck is the uppermost deck that runs the entire length of a ship.

Movements of the vessel

Ahead -Ahead is the forward movement of the ship.

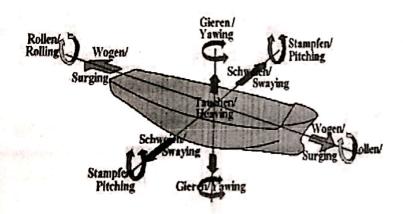
Astern-Astern is the aft or reverse movement of the vessel.

Athwart ships is the sideways movement of the ship. This movement plays an important part in berthing and close interaction between ships.

Rolling -The side-to-side (athwart ship) motion of a ship along the vertical line is known as rolling.

Pitching-The up and down motion of a ship forward and aft is known as pitching

Yawing -The port and starboard movement of bow along the water plane is known as yawing.



Directions

Aft or Stern -The Aft, or Stern, is the rear end of the ship. Forward or Bow

The Forward or Bow- is the front end of the ship.

Mid ship - the area in the center of the ship

Port Side -The left-hand side of the ship looking forward, toward the bow or stem

Starboard Side -The right-hand side, looking from aft forward

Port Bow -The forward part of the ship on the port side

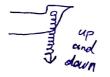
Starboard Bow - The forward part of the ship on the starboard side

Port Quarter -The aft part of the ship, usually from the stern to the accommodation, on the port side Starboard Quarter -The aft part of the ship, usually from the stern to the accommodation, on the

starboard side

Abeam -Abeam is the direction at right angles to the forward aft line of the ship, usually from the center of the ship.

Athwart ship -it is the sideways movement of the ship



Reporting

A lookout is a person at the ship's bridge who maintains a continuous watch of the sea to report any kind of hazard that can be an obstacle in the navigation and cause harm to the ship

Every vessel shall at all times maintain a proper look-out by sight and hearing as well as by all available means appropriate in the prevailing circumstances and conditions so as to make a full appraisal of the situation and of the risk of collision.

The lookout should inform the officer on watch when he observes any of the following:

- Any kind of floating object
- Navigation mark or lights
- Any type of distress signal from other ships or ports

Land
 هرف تقبر از انرازه یا شکار
 Ice, irrespective of size or form

Any type of ship irrespective of its size

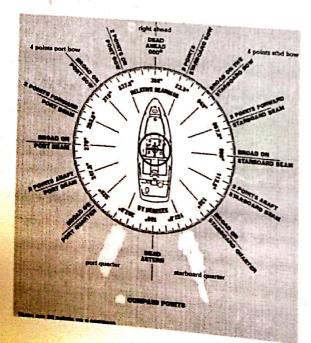
• Sandbags or <u>prominent</u> navigational features
• Problem with any of the ship's navigation systems, including navigational lights

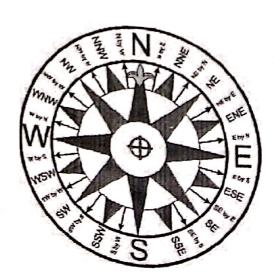
 Any kind of hazards or derelicts that can be dangerous to the ship's navigation (درافتاره) سرتروان

The compass is divided into 32 points.

Each point of compass is 11° 15' or 11.25° ماري المراد The OOW should consider the look-out as an integral part of the Bridge Team and utilise the look-out to

62913







cross the bow

	types of ship) /// ->	تسدم باردارد.	كه مقط <i>وك تفرحدات</i>	سيرهنكي كوياء		
	3	A2MF A3 A4 art of the language use ent, the same "torme"		79/(2/MF R)	71105 H	ازرنع =	
	English terms	A3		المارة عور	705 , 70 K	I Global	trip
	The terms are pa	art of the language us	ed by many of the	ر منات المارد	و ليدار ٥٥٠ ريا	sto Global	trip
	To the great exte	ent, the same "terms"	"are weedly of those	e who " man " the m	erchant ships of	file worra.	
	Since many marit	time and naval traditi	are used by English	n-speaking navies.		u uogo of	
	,,	time and naval traditi English has become t	tho into material	tly influenced by the seas.	ie traditions and Every seaman sh	nould be	
		accountering and defini	itions				
	designed for sho	ing vessel capable of ort trips in protected a	making extended o	ean trips. A boat is	smaller and is n	ormally	
	The word 'vessel	l'includes every desc	crintion of water cra	ft including non-dis	enlacement craft	WIG craft	
	and seaplanes, u	used or capable of bei	ng used as a means	of transportation of	n water		
	'power-driven ve	essel' means any vess	el propelled by mac	or transportation of	Water.		
	Salling vessel, m	neans any vessel unde	er sail provided that	nronelling machine	ry if fitted is no	t being used.	
	'Vessel engaged	l in fishing' means any	vessel fishing with r	propening machiner	other fishing Ar	means, dev	ices
	which restrict m	naneuverability, but do	oes not include vess	el fiching with trollir	of lines or other	fishing	
)	apparatus which	h do not restrict mane	euverability	er naming with troini	ig intes or ourse.		
•	The word 'seapla	lane' includes any airci	raft designed to mar	noeuvre on the wate	er.		
•	'Wing-In-Ground	d (WIG) craft' means a	multimodal craft w	hich, in its main one	erational mode.	flies in close	
ı	proximity to the	surface by utilizing su	urface-effect action.				
		ard" is the phrase that		anyone boarding a s	ship for the first	time.	
		tion of a ship on which					
		pening in the side of a					
	entire entrancew						
	Walking toward t	the front or bow of th	ne ship, one is walkir	ng forward;			
	Walking toward t	the rear or stern of a	ship, he is walking a	ft. Amidships refers	to the middle o	f a ship.	
	Standing on the o	deck, facing toward th	ne bow, on the right	is the starboard sid	e of the ship, an	id on the left	
	is the port side of			u .		19 19	
	Cabins are individ	dual rooms in a ship. 1	The walls are called	bulkheads; there ar	e various openi	ngs in a shin	
	such as doors, hat	tches, portholes, mar	nholes etc. fank en	trance.			
	Passageways run i	fore and aft in a ship,	, connecting spaces;	these can also run	from one side o	of the ship	
	To the other, or at		sverses direction		fore and	aft = long,	tudal
	Match the words o	on the left with defin	itions on the right			-	
	1. Bow or stem		a) the back porti	on of a ship			
	2. Forward		b) An opening in	the deck			
	3. Stern a		c) crafts operatir	ng near to the wate	r surface		
	4. Aft d		d) the direction t	oward the stern			
	TAIL O						
	Choose the best an	iswer:					
	1. in maritime langu	uage, "Welcome abo	ard" means welcor	ne to the			
	a) Class room			Applix 1.7			
1							
•	c) Sea						

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t read to wash my har	nds.
2. How can I get to theI need to wash my har	HA STORY
a)/Water	
h) Deck	
c) Head Jeffy	
3. In order to board a ship you have to go from the pier or	nto the
(a) Deck	
b) Cruiser	
c) Cabin	
4. "Man" used in the second line of the text means	
a) Not a woman	
A strong sailor	
©)Supply crew for a ship	
5. What does "term" in the third line of the text mean?	
a) Time	
(b) Word	
c) Language	
6. A "deck" refers to	
a) The area on right side of the ship	
b) The front part of a ship	
c) The part of the ship on which we can stand or walk and i	ncludes the cargo holds.
그는 닭이는 작은 가게 하는 것이 얼마나 되는 것은 것으로 어디었다.	
Put the words in order to make complete sentences:	
1) Instructions/ please/ the/ first/ read.	
Please read the instructions First	
2) To/ turn/ get/ port/ finally/to / the/ cabins/to/ the/ sidetu(n, to, the part side to get to the 3) Not/ command/ do/ enter/ the/center/without/permission	
MANUAL SINCE TA MOTE	ρ
3) Not/ command/ do/ enter/ the/center/without/permissi	ion.
1) Life/ world:	Put Presmieria
4) Life/ avoid/ in/ putting/ your/ danger. • Att Alaman John John John John Janger Match the transfer of the state of th	010 4 0111117510N.
John John John John John John	
Match the two hales	
Match the two halves of the sentences: 1) You must C	
a) the .	Mile
3) Stop L OUSTUY D) Interrupting the la	L
4) You should finish (c) put your things in t	U.
Complete the following sentences with the proper imperation. 1. Please don't enter (Not/enter) the officer's cabin. 2. Please (Try) to remember all the places in the places in the places.	ight bulb
1. Please dan't enter with the proper import	
2. Please	ve form of the word in parault
3. In order to board the all the place :	in parentheses.
4. A vessel fishing with a ship; they	ne ship.
OBTAINING A SHIP'S POSITION Maneuvers W	ough the gangway lost
3. In order to board the ship; they (Pass) through the places in the ship; they	Called 'Vessel engage to
I.R.IS.L. Training Inchis	restriction)
I.R.IS.L. Training Institute, Bushehr Center	

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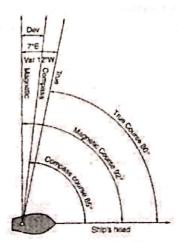
When a ship is proceeding in sight of a coastline, her navigator will normally never be in Doubt of her exact position

The large scale chart of the area gives him the exact position of all landmarks, lighthouses, lightships, etc. By taking compass bearings of suitable Objects on the shore and transferring these bearings on to the chart, the point of intersection of the bearings, called a fix, gives the ship's position. Using three position variation+deviation=compass lines will increase the accuracy of position

Since all courses and bearings laid down on a chart are true, the bearings taken with the compass must be corrected before being drawn in on the chart, by the application of variation and deviation in the case of a magnetic compass, and of any gyro error in the case of a gyroscopic compass. Other method of fixing a ship's position when in sight of land is by sextant angles. If the Height above sea level of an object on land, such as a lighthouse or church tower, is known, a Vertical sextant angle (VSA), by means of simple mathematics, will give the distance between the Observer and the object, and when combined with a compass bearing, will provide a position on the chart by bearing and distance The most common device which is used on compass for obtaining bearings is the bearing or azimuth circle.

Modern aids to navigation(navigational aids) make the task of the coastal navigator even easier. Radar is a means of providing the navigator with vital information in darkness or in fog, enabling him to See the land and in many cases providing him with an accurate bearing and distance of Landmarks which are marked on his chart

Hyperbolic navigation, such as the Decca Navigator system, is another means of accurate fixing A wise navigator, unless he has no alternative, does not use buoys as marks to fix his ship's position. Buoys can drag their moorings and thus be out of position and, being unmanned, can give no warning of any error.



When latitude and longitude are used for position, these shall be expressed in degrees and minutes (and Decimals of a minute if necessary), North or South of the Equator and East or West of Greenwich Example: "Dangerous wreck in position 15 degrees 34 minutes north, 061 degrees 29 minutes west." When the position is related to a mark, the mark shall be a well-defined charted object. The Bearing shall be in the 360 degrees notation from true north and shall be that of the position

FROM the mark

Example: "Your position bearing 137 degrees from Big Head lighthouse distance 2.4 nautical miles."

The bearing of the mark or vessel concerned is the bearing in the 360 degree notation from north (true north unless otherwise stated), except in the case of relative bearings. Relative bearings can be expressed in degrees relative to the vessel's head. More frequently this is in Bearing also may be measured from true north, magnetic north or compass north which will be named accordingly Always to be expressed in 360 degree notation from north (true north unless otherwise stated) Preferably to be expressed in nautical miles or cables (tenths of a mile) otherwise in kilometers or meters, the unit always to be stated. How fast the vessel is moving. To be expressed in knots Choose the correct answer 1-onlybearings can be transferred on nautical charts. d-gyro (c-true b-compass a- magnetic 2-during coastal navigation, sextant can be used for (b)-taking distances from objects a-taking bearing of lights d-taking vertical sextant angle from terrestrial objects c-checking the compass error 3-which item is not recommended to be used for position fixing a-bearings from fixed lights b-distances from fixed lights c-vertical sextant angle of charted towers dbearings from floating buoys 4- If a bearing is measured with reference to the our ship's longitudinal axis, it is termed a a-true bearing (b)relative bearing c-aspect d-gyro bearing 5- the course which is measured with respect to the magnetic north, it is a a-compass course b-compass azimuth c-magnetic course c-magnetic azimuth Put the words in order to make complete sentences: 1) Compass bearings/ on chart / be/ corrected for / should / before applying /errors 2) Be used/position fixing/for/coastal waters/can/Radar/in
Radar/in
Landar

La Match each term on the left with its synonym on the right: a-vessel's position 5 1- nav.aids b-Bearing #3 2-precise (our) c- Piloting 4 3- take the bearing d- Error 7 4- coastal navigation e- Navigational aids 1 f-Shoot (the object) \mathcal{B} 5-fix g-Accurate 2 6- azimuth Safety onboard 7- mistake

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Safety onboard ships is an important issue. Normally at sea and often very far from any possible assistance, there is nobody who can be called upon for help.

Of course, the ship should be of good design, well maintained and in seaworthy condition with sufficient stability, watertight and weather tight and properly equipped.

Prevention through recognition, rectification and avoidance of unsafe actions and/or situations at all times and at all places on board by all personnel and passenger, is of utmost importance.

Courses and regular drills are held in order to ensure that the crew is safety conscious.

The crew is trained to use the right equipment in case of emergency.

To work professionally with all equipment, the ship's crew needs to be educated and everyone must have certificate of competency.

Safety clothing: It is a legal requirement that you wear the proper safety clothing and footwear in those parts of the ship where certain hazards exist.

Hard (safety) Helmet and proper protective (safety) shoes are the minimum for working on external decks.

Inflatable (working) lifejackets are supplied in the Laboratory and will also be required to be worn in certain situations when working at or near the ship's side or stern. In addition to working lifejackets, certain operations will require safety harnesses to be worn if the master deems it necessary.

The motion of a ship will increase the risk of slips, falls and muscular injuries. Relatively simple tasks may require two people so always ask for assistance if in doubt. Always undertake a risk assessment prior to t prior ...
Donning = wearing
lifejacket ارزلى عفرات احتمالي lifting or moving anything on board the vessel.

Do not attempt to interfere with any electrical supplies or fittings on board at any time.

Lifesaving Appliances:

Lifeboats: Lifeboats have to be installed on each side of the ship. The boat/ boats on each side shall be capable of accommodating everybody on board

Life Rafts: Inflatable life rafts are located on each side for the whole complement.

Life Jackets: Life jackets are provided for everybody on board. They must have a light and whistle. They are usually stored in the cabins, but sometimes in boxes near the lifeboats.

علقتر كان

Life Buoys: A number of Life buoys, depending on the ship's length are positioned around the vessel and hooked on the handrails. On both bridge wings there has to be a life buoy, that when released, drops by gravity into the sea.

a floating smoke light and a light signal Attached to these buoys

Immersion Suit: some immersion suit has to be worn together with a life jacket. The insulating quality of the immersion suits has to be such that the body temperature does not drop more than 2 degrees Celsius after 6 hours in water with a temperature between 0 and 2 degrees Celsius. Wheel orders

Autopiolet can be used in 2 to 9 knot and higher? (Thallow) water = very low depth area

Definition

A helmsman is an individual who is responsible for the steering of any type of transportation used in or on the water. He called upon specifically to guide the ship as it enters a port and prepares to dock, or during the departure process when it is necessary to successfully clear the docking area or anywhere which deemed necessary.

In the merchant marine, the person at the helm is usually an able seaman, particularly during ship arrivals, departures, and while maneuvering in restricted waters or other conditions requiring precise steering. An ordinary seaman is commonly restricted for steering. AB must be used.

A professional helmsman maintains a steady course, properly executes all rudder orders, and communicates to the officer on the bridge utilizing navigational terms relating to ship's heading and steering

A helmsman relies upon visual references, a magnetic and gyrocompass, and a rudder angle indicator to steer a steady course. The mate or other officer on the bridge directs the helmsman aboard merchant or navy ships for proper execution of the orders which are to be followed.

Clear and exact communication between the helmsman and officer on the bridge is essential for safe navigation and ship handling. Subsequently, a set of standard steering commands and wheel order which is written in the Standard Maritime Communication Phrased (SMCP) must always be practice on board

Proper responses by the helmsman and acknowledgment by the conning officer are widely recognized in the maritime industry to avoid miss-communication.

The helmsman repeats any verbal commands in order to demonstrate that the command is heard and understood. سان دادر

The International Convention on Standards of Training, Certification and Watch keeping for Seafarers (STCW) requires that helmsman must be able to understand and respond to helm orders in English

Steering a ship effectively requires skills gained through training and experience. An expert helmsman has a keen sense of how a particular ship will respond to the helm or how different sea conditions impact steering. For instance, experience teaches a helmsman the ability to correct the rudder in advance of a ship substantially falling off course. This requires the capacity to anticipate the delay between when the helm is applied and when the ship responds to the rudder. Similarly, a skilled helmsman will avoid overcompensating for a ship's movement caused by local conditions, such as wind, swells, currents, or rough seas.

All given wheel orders should be repeated by the helmsman and the officer of the watch To ensure that they are carried out correctly and immediately

All wheel orders should be held until countermanded. The helmsman should report immediately if the vessel does not answer the wheel. مرمان كالعندي مهادر الم

The word "course" and "heading" may be differing in meaning. "Course" is the angle which is intended to be followed by vessel (the requested angle by duty office/master or pilot) but "heading" is the ships head at present time.

In some conditions, the Heading may be the same as Course.

"What is your heading?" Or "What is your heading now?" **Pilot** Wheelsman "My heading is ... degrees."

Pilot "What is The Course ?" Wheelsman "My Course is ... degrees."

How to announce the course or heading:

The course is 186 degrees = the course is one eight six degrees

When the order is received from the officer, the wheel man should repeat the same order loudly to ensure that officer has mentioned his correct intension and also the wheel man understood the order correctly. $\alpha ccept$

When it is confirmed by officer, the wheelman follows the requested command and when order is completely done, he should again repeat the job to remind that it is done.

Order

deducted a

Meaning

1. Midships

Rudder to be held in the fore and aft position.

Pilot "midships" Wheelsman "midships sir"

When the rudder angle indicator is put exactly on amidships:

Wheelsman "wheel on midships sir."

2. Port / starboard

Rudders to be put on ... degree port / starboard

"port 10" Pilot Wheelsman "port 10 sir"

When the rudder angle indicator is put exactly on 10 degrees port side:

Wheelsman "wheel on port 10 sir"

3. Hard -a-port / starboard

Rudder to be held fully over to port / starboard.

"Hard starboard" Pilot Wheelsman "Hard starboard sir"

When the rudder angle indicator is put fully to starboard side:

Wheelsman "wheel on port 10 sir"

Reduce swing as rapidly as possible and keep the heading on a special degree

4. Steady "Steady on 140" Pilot Wheelsman "Steady on 140 sir"

When the swing is controlled and ships head is maintained on the requested heading:

Wheelsman "Heading is 140 sir."

The order of "steady" may be used in different situations:

control the swing to maintain the present heading control the heading to maintain the heading of 140 degrees "Steady as she goes"

"Steady on 140"

Avoid allowing the vessel's head to go to port/starboard

The wheel man should control the heading and in no circumstances, the vessel should be allowed to swing to port/starboard.it does not mean that the vessel should alter course to opposite side.

6. Meet her (check her)

PIU OTING = Sorward il File of

steering by sight:

at number &

This order is normally being used to check and control the ship swinging in some cases, when the vessel is turning due to stbd / Port wheel and the officer wants to control the ships movement and turning, he may order to change the wheel to opposite side (Port /stbd) for about 5-10 degrees.

Wheel on stbd 20 and vessel is turning

"check her"

Wheelsman "check her sir"

When the the wheel is changed from stbd 20 to port 5:

Wheelsman "wheel on port 5 sir."

7. Ease to five / ten

Reduce amount of rudder to 5/10 and hold

This order is used to reduce the amount of rudder angle but not to other side.

Wheel on stbd 20 and vessel is turning

Pilot

"Ease to five"

Wheelsman "Ease to five sir"

When the wheel is changed from stbd 20 to stbd 5:

Wheelsman "wheel on stbt 5 sir."

8. Keep the buoy/ mark/ beacon/ ... on the bow

This type is steering is normally called "steering by sight". The officer gives order to keep the ships head so as to follow direction toward a light, buoy etc.

In this case the helmsman should use proper and appropriate wheels to follow the requested command.

9. Report if she does not answer the wheel. (No respond to the wheel)

Respond of vessel to the wheel and rudder movements depend on the movement of vessel through the water.in the cases when the engine has stopped and propeller not turning, respond of vessel to wheel is gradually reduced and after a while there will be no respond. The wheelman should inform the officer step by step immediately.

10. Give her more rudder

Increase the rudder angle. The command is given with the rudder already over some degrees, when it is desired to make the ship turn more rapidly. The command should be followed by the exact number of degrees desired for the turn.

Wheel on stbd 10 and vessel is turning

Pilot

"Give her more rudder"

Wheelsman "more rudder"

MODRED vessel; made fast to the shore connected to the hurbur by marring ropes.

Moorans Ropes: Ropes that connectal ship to let =

co Th

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When the wheel is changed more rudder on the same side:

Wheelsman "wheel on stbt 20 sir."

11. Finished with wheel, no more steering.

It means the job is steering is completed and wheel man is no more required.

Helmsman of merchant and military ships will remain responsible at the helm for a set period of time before being relieved by another person.

i.c. that is E.g = Por example

Change of wheel man to be by permission of duty officer or master. The person being relieved will complete any course change or other critical maneuver that is in progress before handing over the helm. The helmsman handing over the helm will inform the relief helmsman of any rudder commands in place and present conditions.

E.g. "Steering 180 or wheel on starboard 20"

The relief helmsman is obligated to repeat the course being steered or other rudder command in order to demonstrate an understanding of the situation at the helm.

The relief helmsman will then take the helm and repeat all the information to ensure that he knows what to steer while on watch.

The relieved helmsman should stay in the command center for a while to ensure that new person is able to perform his duty then he may seek permission to leave.

An example of this would be:

Helmsman:

Helm is being relieved... (Changing the wheelman)

Steering two-four-eight per gyro

Rudder amidships

Relief:

Helm has been relieved... (Wheelman changed)

Steering two-four-eight per gyro

Rudder amidships

The officer on watch will usually always reply with "very well "or "ok" or "thanks"

Exercise:

State the standard marine phrases for the following wheel and engine orders.

Rurider to be held fully over the port hard a Port

15° of port rudder to be held Port 15

Rudder to be held in the fore and aft position midship

10° of starboard rudder to be held 3/hJ %

Rudder to be held fully over to the starboard hard stbd

Reduce amount of rudder from stbd 20 to stbd 5° and hold Ease Fo 5

Reduce swing as rapidly as possible check her / meet her

Movement of wheel is no longer required Finish the wheel

Put the words in order to make complete sentences:

1- Essential / officer / Clear / is /between / helmsman / communication / and ssential/officer/ clear/13/vervection between and helminan and officer

2- Must / be able / to understand / helm / orders / in English / helmsman

3- Wheel man / repeat / loudly / the wheel / the / should / order

4-Wheel / The wheelman / should / when / is not / the officer / responding / inform / immediately

Any engine order given should be repeated by the person operating the bridge telegraph(s) and the

Officer of the watch should ensure the order is carried out correctly and immediately

ORDER

- 1. Full ahead
- 2. Half ahead
- 3. Slow ahead
- 4. Dead slow ahead
- 5. Stop engine(s)
- 6. Dead slow astern
- 7. Slow astern
- 8. Half astern
- 9. Full astern
- 10. Emergency full ahead
- 11. Emergency full astern
- 12. Stand by engine

(Engine-room personnel fully ready to maneuver and bridge manned to relay engine orders.)

13. Finished with engine(s)

(Movement of engine(s) no longer required.)

In vessels fitted with twin propellers, the word "both" should be added to all orders affecting both Shafts, e.g. "Full ahead both", and "Slow astern both", except that the words "Stop all engines"

Should be used, when appropriate

When required to maneuver twin propellers independently, this should be indicated, i.e. "Full ahead starboard", "Half astern port", etc.

Where bow thrusters are used, the following orders are used:

Bow thrust full /half to port side.

Bow thrust full/half to starboard side.

Stern thrust full /half to port side.

Stern thrust full/half to starboard side.

Bow /stern thrust stop

Responses

When the answer to a question is in the affirmative, say:

"Yes..." - followed by the appropriate phrase in full.

When the answer to a question is in the negative, say:

"No..." - followed by the appropriate phrase in full.

When the information requested is not, immediately available, say:

"Stand by" - followed by the time interval within which the information will be available.

When the information requested cannot be obtained, say:

"No information."

When an INSTRUCTION (e.g. by a VTS-Station, Naval vessel or other fully authorized personnel) or an ADVICE is given, respond if in the affirmative:

"I will/can ..." - followed by the instruction or advice in full; and,

If in the negative, respond:

"I will not/cannot ..." - followed by the instruction or advice in full.

Example: "ADVICE. Do not overtake vessel ahead of you."

Respond: "I will not overtake vessel ahead of me."

The responses to orders of special importance, however, are given in wording in the phrases concerned