



Maritime Health Trainings for Seafarers and Doctors

«Training 1- Familiarization to Shipboard Working Environment»

ERASMUS+ KA2 - Cooperation for Innovation and the Exchange of Good Practices
KA202 - Strategic Partnerships for vocational education and training



REPUBLIC OF TURKEY
MINISTRY OF HEALTH
GENERAL DIRECTORATE OF HEALTH
FOR BORDER AND COASTAL AREAS OF TURKEY



AP&A
GROUP

Familiarization to Shipboard Working Environment

✓ ***Learning Objective;***

The aim of this section is to provide the knowledge to the Maritime Medical Doctors about shipboard working environment. Upon completion of this section, trainers will be able to:

- Gain information about merchant ships according to their purpose, cargoes and types
- Find out the system of hierarchy on merchant ships
- Determine the duties and responsibilities of seafarers
- Familiarize the ship departments

1. Types of Merchant Ships:



General Cargo/Container Vessel



Bulk Carrier



Crude oil Tanker



LNG Carrier



RO-RO Vessel


2. Types of Cargo Carried on Ships:

General Cargo

Unitized Cargo

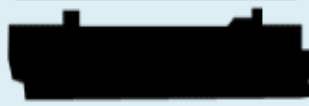


Break Bulk




Drums, bags, pallets, boxes
Lift-on/lift-off (1.0 day average port time)
7% of tonnage

Neo Bulk



Lumber, paper, steel, vehicles
Lift-on/lift-off, roll-on/roll-off (1.0 day average port time)
5% of tonnage

Containerized




Containers
Lift-on/lift-off (0.9 days average port time)
13% of tonnage

Bulk Cargo

Loose Cargo




Liquid Bulk



Petroleum, LNG, chemicals, vegetal oils
Pumps and pipelines (1.1 to 1.3 days average port time)
35% of tonnage

Dry Bulk



Coal, iron ore, grains, bauxite, sand
Grabs / suction and conveyors (2.7 days average port time)
40% of tonnage

3. The Duties and Responsibilities of Seafarers:

-Deck Crew: Officers + Ratings



3. The Duties and Responsibilities of Seafarers:

-Engine Crew: Officers + Ratings

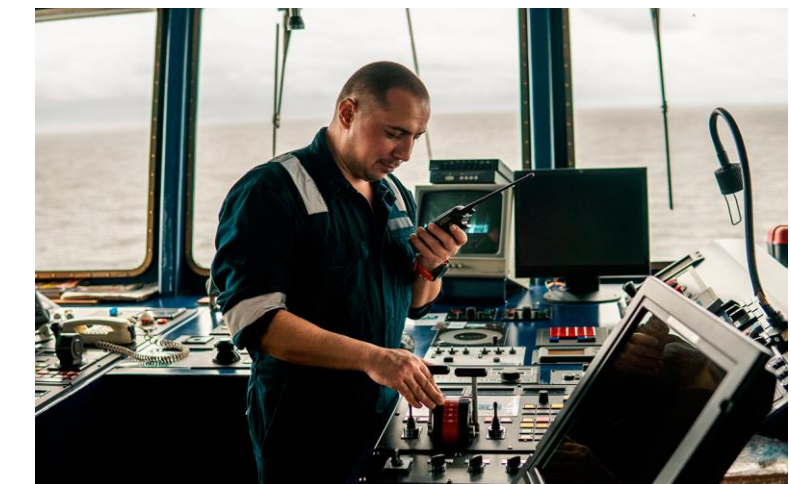
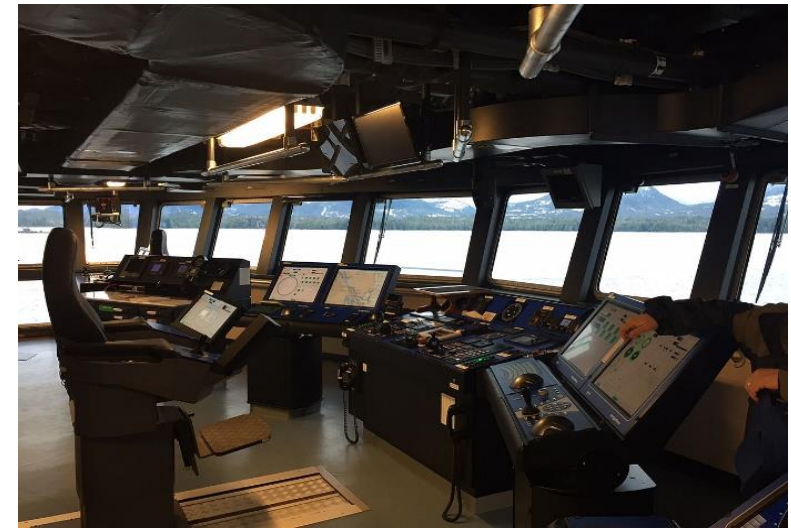


3. The Duties and Responsibilities of Seafarers: - Catering Department



4. Familiarization of Ship Departments

-Bridge (wheel house)



4. Familiarization of Ship Departments

- Engine Room



4. Familiarization of Ship Departments

- Accommodation Area



Cabin



Galley



Laundry



Mess Room



Gym

4. Familiarization of Ship Departments

- Hospital



4. Familiarization of Ship Departments

- Enclosed Spaces



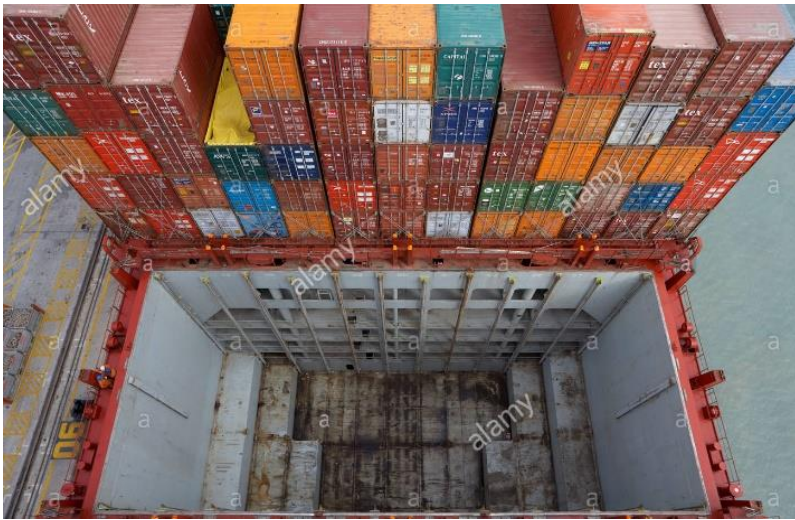
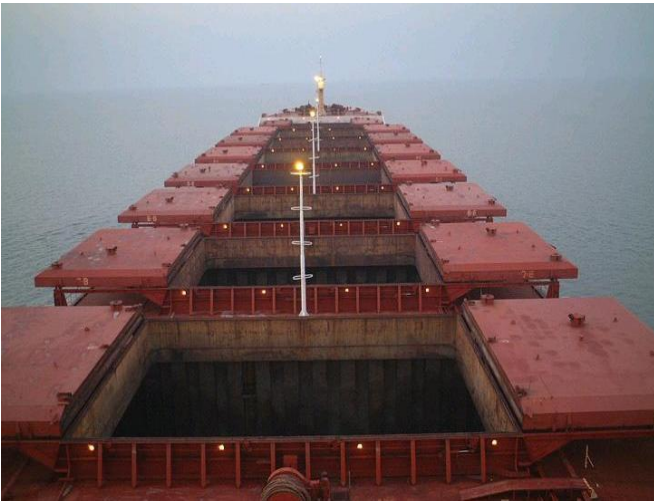
4. Familiarization of Ship Departments

- The Forecastle deck



4. Familiarization of Ship Departments

- The Cargo Tanks & Holds



4. Familiarization of Ship Departments

- The Gangway & Pilot Ladder



References

- [1] International Maritime Organization, Maritime Safety / Safety Regulations, Safety regulations for different types of ships, (<http://www.imo.org/en/OurWork/Safety/Regulations/Pages/Default.aspx>)
- [2] Statista (2020), Statistics about Transport and Logistics, Water Transport, <https://www.statista.com>
- [3] International Chamber of Shipping, Shipping and World Trade // Different Types of Ship in the World Merchant Fleet, (<https://www.ics-shipping.org/shipping-facts/shipping-and-world-trade/different-types-of-ship-in-the-world-merchant-fleet>)
- [4] www.marinetraffic.com
- [5] Varren Maritime Academy, Different Types of Merchant Ships, (<https://www.varrenmaritimeacademy.com/8-different-types-of-merchant-ships/>)
- [6] The Geography of Transport Systems, The spatial organization of transportation and mobility, (https://transportgeography.org/?page_id=10258)
- [7] Danish Maritime Authority, Safety at sea, Ship safety, Carriage of dangerous goods, (<https://www.dma.dk>)
- [8] Viking Maritime, Joining the Merchant Navy – What is the Merchant Navy? (<https://www.chilternmaritime.com/joining-the-merchant-navy/>)
- [9] Aragon, James R.; Messer, Tuuli Anna (2001). Master's handbook on ship's business. Cambridge, Md: Cornell Maritime Press. ISBN 0-87033-531-6.
- [10] Nedcon, Crew structure on board merchant vessels – deck department, (<https://www.nedcon.ro>)
- [11] Wise Geek: What is the Engine Department on a US Merchant Ship? (<https://www.wisegeek.com/what-is-the-engine-department-on-a-us-merchant-ship.htm>)

References

- [12] A Guide to Merchant Navy Officer Ranks, Marineinsight, (<https://www.marineinsight.com/careers-2/a-guide-to-merchant-navy-officer-ranks/>)
- [13] The Different Ranks of Seafarers, (<https://toughnickel.com/industries/ranksofseafarersresponsibilities>)
- [14] Tracy, Jane (June 1989). "Summer editions". Cruising World. Newport, Rhode Island: New York Times Company. 15 (6): 89. ISSN 0098-3519. Retrieved 2018-01-06.
- [15] Payne, John C. (1998). The Marine Electrical and Electronics Bible. Maintenance and Repair. Sheridan House. pp. 420. ISBN 9781574090604. Navigation station.
- [16] Raunek Kantharia, Extremely Dangerous Engine Room Accidents On Ships, (<https://www.marineinsight.com/marine-safety/10-extremely-dangerous-engine-room-accidents/>)
- [17] <https://usslater.org/tour/decks/main/galley/galley.html>
- [18] MI News Network, 10 Types of Decks Every Seafarer Should Know, Marineinsight, Marine Navigation
- [19] Shivansh Singh, (2020), Design Of Cargo Holds In Different Types Of Ships, Marineinsight, Naval Architecture.
- [20] Anish Wankhede, (2019), A Comprehensive List of Fuel, Diesel and Lube Oil Tanks on a Ship, Marineinsight, Marine Technology
- [21] Karan Chopra, Gangway and Types of Gangways Used in the Shipping World, Marineinsight, Know more.