



*Training Course:
Navigation for Non-Navigators and Maritime
Technical knowledge for GMs and CEOs*

*2 - 6 September 2024
Boston (USA)*

Training Course: Navigation for Non-Navigators and Maritime Technical knowledge for GMs and CEOs

Training Course code: MM234898 From: 2 - 6 September 2024 Venue: Boston (USA) - Training Course Fees: 7440 € Euro

Introduction

This course provides a broad experiential introduction to maritime skills.

Candidates will explore a variety and range of knowledge enhancement of people working in the maritime sector.

There's an introduction to marine navigation, where candidates learn how to use a marine chart to plot position using standard marine instruments, and how to take account of the weather.

The safety aspects of any job in the maritime sector are tackled in the Unit Health and Safety in the Maritime Sector, including safe working practices on board a ship, life-saving principles, basic first aid, and basic fire safety. The Unit also covers the basic engineering involved with small boats, such as pumping and steering mechanisms reviewed and the routine care and maintenance of the engine and auxiliaries on a boat.

Training Objectives

At the end of this training program participants will learn:

- The basics of navigation.
- Navigation branches.
- What are the direction measurements instruments, and speed measurements?
- What are the depth measurement devices and their types and scope of work?
- What are the electronic instruments that are used in navigation?
- Plotting and positioning using different techniques.
- Comprehend the health and safety measurements in ship operations.
- The safe working practices on board the vessels
- Basic Engineering and General Engineering Knowledge
- Shipboard Equipment and Systems and Propulsion

Methodologies

Central to the Course is developing the competencies valued by employers in general and necessary for effective work in the maritime sector. These skills are embedded in the different Units, providing candidates with the opportunity to practice and develop these skills through practical and team-working activities in real or simulated working environments and investigations throughout the Course. Candidates will also evaluate their own skills, seeking feedback from others, identifying areas of improvement, taking account of feedback received, and reviewing their progress throughout the Course.

Course outlines

Module 1: Navigation for Non-Navigators

Day 1

Introduction to Navigation

- The shape of the earth.
- Poles
- Equator
- Parallel of latitude
- Meridians
- Latitude and Longitude
- D Δ Lat and D Δ Long
- Distance
- Units of Measurements
- Geographical Mile
- Nautical Mile
- Knots

Branches of Navigation

- Deck Reckoning
- Piloting
- Electronic Nav
- Celestial Navigation

Direction Measuring Instruments

- Compass
- Magnetic Compass
- Gyro Compass
- Gyro Compass Repeaters
- Bearing Circles
- Azimuth Circles
- Pelorous Dumb Compass
- Alidade

Speed Measuring Instruments

- Taffrail Log
- Pito-static Log
- Engine revolution Counter
- Short Range Measuring Devices

Day 2

Depth Measuring Device

- Head Lead
- Deep Sea Lead
- Sounding Machine
- Echo Machine FATHOMETER

Electronic Instruments

- Radio Receiver

- Radio Direction Finder RDF
- Radio Detection and Ranging RADAR

Navigation

- Coastal Navigation Terrestrial Navigation
- Celestial Navigation Astronomical Navigation
- Radio Navigation
- Satellite Navigation

Plotting and Positioning

Module 2: Maritime Technical knowledge for GMs and CEOs

Day 3

Safe working practices on board a ship

- Safety regulations and standards
- Accidents and incidents - the statistics
- Safety and environmental protection
- Communications
- Damage control
- Elementary first aid
- Emergency equipment
- Environmental awareness
- Fire Detection and Fire Fighting Systems
- Hazardous materials

Main Engines & propulsion System

- Ship Systems
- Prime and/or Secondary Propulsion Units/Movers
- Damping
- Flexible Couplings
- Gearboxes
- Shafting
- Propeller
- Diesel Engines

- Diesel-Electric
- Turbines

Day 4

Power Generation and Distribution

Auxiliary Machineries and Systems

- Pipes, Fitting, and Valves Separator
- Pumps Types
- Fans and Blowers
- Heat Exchangers and Compressed Air
- Starting Systems
- Anchor Windlasses
- Rudder Systems and Machinery
- Fire extinguishers and fighting systems
- Inert gas systems
- Evaporators and distilling plants
- Refrigeration rooms
- Air conditioning principles.

Day 5

Deck Equipment and Machinery

- Deck Crane/Cargo Rail Crane
- Hydraulics Systems
- Launch and recovery systems
- Rig anchor
- Mooring Winch
- Stabilizers
- Steering Gear SR/RV

Fuel, Lube Oil, Freshwater, and Sea Water Systems

Sewage Treatment Plant, Black, and Gray Water Systems

Registration form on the Training Course: Navigation for Non-Navigators and Maritime Technical knowledge for GMs and CEOs

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Person Responsible for Training and Development

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Payment Method

- Please find enclosed a cheque made payable to Global Horizon
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