

Course Name: Advanced Navigation

Code: MAR 808

Course Objective:

- The course covers the theory and practice of navigation necessary for the effective and safe navigation of a ship in coastal waters and in the open seas.
- The trainee will possess a through understanding and capability in the subject of navigation to enable him to carry out passages independently in a proper and safe manner and to be able to solve those problems that may arise during a voyage.
- The trainee will be able to fix position and analyses in a practical way the quality of the fix, do great-circle calculations, read the tide table and do prediction calculations for a port.
- The trainee will be able to use appropriate means of navigation in coastal waters, make use of publications, pilot charts and other publications to choose a safe and economic “best” route.
- This course aims to meet the mandatory minimum requirements for knowledge, understanding and proficiency in table A-11/2 of STCW 1995 (Specification of minimum standard of competence for master and chief mates on ships of 500 gross tonnage or more) for the function navigation at the management level.

Course Methodology:

This training course is designed to be a hands-on, stimulating experience. The training course is highly interactive with many discussion and practice sessions.

- Relevant computer simulations and videos .
- Copies of all presentation material.
- Variety of Learning Methods.
- Pre-test and final test.
- Case Study
- Training Groups.
- Presentation.
- Lectures

United Arab Emirates

Emirates Towers, Level 41 Sheikh Zayed Road
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Tel.: 00966133308334

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101 Business Tower, 8th Floor
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Tel.: +966 13 361 5552

Who Should attend?

This course is designed for workers in the marine field and maritime ports

Course Outline:

1. Plotting – relative motion (full report –change of course and speed of own ship)
2. Plotting – relative motion (change of course & speed of target)
3. Plotting- true motion (change of course and speed of own ship)
4. Plotting- true motion(change of course & speed of target)
5. Tropical storms (determine the track and position of the storm by plotting)
6. Tropical storms (determine the position of the storm by using dep. & d.lat)
7. Tropical storms (action to avoid tropical storm)
8. Voyage planning - Types of sailing (parallel)
9. Voyage planning - Types of sailing(plan-mercator)
- 10.Great circle sailing (calculation of distance- initial & final course)
- 11.Great circle sailing (initial & final course by ABC)
- 12.Great circle sailing (position of vertex)
- 13.Great circle sailing (special cases)
- 14.Great circle sailing (determine the intermediate points)
- 15.Great circle sailing (general revision for the previous subjects)
- 16.Composite sailing (CALCULATIONS)
- 17.Composite sailing (Solving Problems in advanced navigation course book)
- 18.LOG Book
- 19.LOG Book – SHIP REPORTING SYSTEM
- 20.NAUTICAL PUBLICATIONS

Reference Books:

Admiralty manual of Navigation Vol. 1

Admiralty manual of Navigation Vol. 2

Ship's Routing

Time: 08:00 AM -03:00 PM

Numbers of hours: 35 Hours

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