

Course Name: Advanced Navigation 2

Code: MAR 809

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 thorough 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.
- 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
Dubai-UAE. P.O Box 3103

Tel.:0097143132317

Kingdom of Saudi Arabia

Khobar Gate Tower
King Fahad Street , Khobar 31952

Tel.: 00966133308334

Kingdom of Saudi Arabia

101 Business Tower, 8th Floor
Al Jubail 35513, Bldg# 9278 ,KSA

Tel.: +966 13 361 5552

Who Should attend?

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

Course Outline:

1. Introduction to tide - Causes of tide - Spring and Neap Tides
2. Definitions
3. Tide tables
4. The relationship between the heights of tide levels - times of tide - Standard ports (A.T.T Part I):
5. find the actual depth - actual height of light house
6. Passing over shoal & under bridge - Grounding problem
7. Secondary ports (A.T.T Part II)
8. Tide stream (A.T.T part Ia), Flow
9. find the set and rate of tidal stream and flow
10. find the set and rate of flow and Tidal stream
11. find the time and height of tide by using simplified Harmonic Method.
12. Introduction to coastal voyage planning
13. Navigation in traffic separation scheme (T.S.S).
14. Ship assistance and Rescue (Rendezvous).
15. The communication during the coastal voyage planning
16. Wheel over point (W.O.P)
17. The horizontal and vertical danger angles - Shallow water and Narrow channels effect
18. practical use of some Navigational equipments
19. Bridge organization or team –work
20. factors affecting on the ship's squat

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

United Arab Emirates

Emirates Towers, Level 41 Sheikh Zayed Road
Dubai-UAE. P.O Box 3103

Tel.:0097143132317

Kingdom of Saudi Arabia

Khobar Gate Tower
King Fahad Street , Khobar 31952

Tel.: 00966133308334

Kingdom of Saudi Arabia

101 Business Tower, 8th Floor
Al Jubail 35513, Bldg# 9278 ,KSA

Tel.: +966 13 361 5552