

## Course Name: Terrestrial Navigation

Code: MAR 810

### Course Objective:

- 1- Definitions: The Earth, chart projections, and its construction
- 2- Compass corrections: Gyro error, Variation, Deviation, The compass error
- 3- Types of position lines & methods of fixing
- 4- Wind and current effect of the ship's tracks
- 5- Nautical publications and its uses
- 6- Sailing: (Rhumb line – Parallel – Plane – Traverse – Great circle – Composite sailing)
- 7- Tides: Definitions & applications for Standard and Secondary.
- 8- On Completion of the training and assessment, trainees should be competent to carry out the fundamental tasks of terrestrial and coastal navigation and to be ready for 2nd mate exam.

### 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

### Who Should attend?

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

#### 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

**Course Outline:**

1. Definitions (the earth)
2. Chart projections
3. Compasses corrections.
4. Types of position lines & Methods of fixing
5. Wind and current effects
6. Running fix and special cases in chart work
7. Sailing: definitions & types of sailing
8. Sailing (cont.).
9. Nautical publications & its uses.
10. Tides: Definitions: Heights, Times in standard and secondary ports
11. Tide applications
12. Examination problems in terrestrial navigation

**Time: 08:00 AM -03:00 PM**

**Numbers of hours: 35 Hours**

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