

**Course Name: Celestial Navigation ( 2 )**

**Code: MAR 811**

**Course Objective:**

- 1-WILL BE ABLE TO FIND THE TRUE LATITUDE USING POLE STAR...ABLE TO FIND THE TIME OF MERPASS , ALSO USING MERIDIAN PASSAGE METHOD
- 2- Will be able to find observed position using simultaneous observation
- 3- Will be able to find observed position using long run sights
- 4- To become proficient in obtaining the compasses errors using celestial bodies

**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?**

Deck Cadets of basic studies

**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:

### Lecture

1. Astronomical position line ( star – planets – moon – sun )
2. Compass error at any time
3. Compass error by Baring Amplitude method
4. Revision on Intercept method
5. Meridian passages & solving tasks ( Sun )
6. Rising , Setting of the sun & Twilight phenomena
7. Polaris method
8. Star constellation
9. Preparation for stars observation
10. Simultaneous sights
11. Long Run sights

### Reference Books:

Adel Mustafa ; Celestial Navigation 1st. Ed. 1996  
Admiralty manual of Navigation  
American practical Navigator.

**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