

**Course Name: Synoptic Charts & Weather Routing**

**Code: MAR 805**

**Course Objective:**

This Course Provide The Background Knowledge To Support .

- COMPOSITION, NATURE & PROCESSES OF THE ATMOSPHERE –  
ATMOSPHERIC PRESSURE & PRESSURE SYSTEMS – WIND & AIR  
MASSES – METEOROLOGICAL INSTRUMENTS & OBSERVATIONS –  
WEATHER ASSOCIATED WITH SYNOPTIC SYSTEM

This Course Aims To:

- Meet the mandatory minimum requirements for knowledge , understanding & proficiency in accordance with Training Outcome 1.1.7 “ Meteorology “ in the IMO model course 7.03 “ Officer in charge of a Navigational watch “
- Cover the basic principles to be observed in keeping a Navigational watch as per STCW 1995 , Regulation VIII/2 & STCW code Chapter VIII.

**Program Methodology:**

Teacher controlled (Lectures and training at the lab)

**Who should attend?**

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

**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. Ship borne Meteorological Instruments.
2. The atmosphere, its composition & physical properties
3. Atmospheric Pressure
4. Surface Wind
5. Cloud & Precipitation
6. Visibility
7. The Wind & Pressure System over the Ocean
8. Weather Associated with Synoptic Systems ( Structure of depressions )
9. Weather Associated with Synoptic Systems ( Anticyclones & other pressure System
10. Synoptic Charts plotting & analysis
11. Weather Services for Shipping
12. Recording & Reporting Weather Observations
13. Principles of weather forecasting

### Laboratory Workshop:

Ship borne Meteorological Instruments ( Meteorological Laboratory )

Introduction to weather services for shipping ( operation of the Facsimile machine & illustration of the types of information received by it )

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

**Numbers of hours: 35 Hours**

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