

Course Name: Marine Meteorology

Code: MAR 806

Course Objective:

THIS COURSE PROVIDES THE BACKGROUND KNOWLEDGE TO SUPPORT:

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

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.

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

Presentation.

Lectures

Who Should attend?

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

Course Outline:

1. The composition and vertical divisions of the atmosphere
2. Air temperature and heat exchange in the atmosphere.
3. Atmospheric pressure.
4. Water vapor cycle in the atmosphere.
5. The surface wind.
6. The vertical stability of the atmosphere.
7. Clouds classification and methods of formation.
8. Hydrometeors, precipitation and visibility.
9. The nature of meteorological observations and instruments of air temperature.
10. Instrument of Atmospheric pressure and humidity.
11. Instruments of surface wind and sea surface temperature.
12. Air masses, fronts, local and severe winds.
13. Structure of depressions.
14. Anticyclones and other pressure systems.
15. Introduction to weather services for shipping.

Laboratory:

Instruments of air temperature (Meteorological laboratory).

Instrument of Atmospheric pressure and humidity (Meteorological laboratory).

Instruments of surface wind and sea surface temperature.

Introduction to weather services for shipping (Watching the Facsimile machine and the types of information received by it).

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Time: 08:00 AM -03:00 PM

Numbers of hours: 35 Hours

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