



Training Course: Port Planning and Infrastructure Design

5 - 9 April 2026 Kuwait Crowne Plaza Kuwait Al Thuraya City



Training Course: Port Planning and Infrastructure Design

Training Course code: MM234841 From: 5 - 9 April 2026 Venue: Kuwait - Crowne Plaza Kuwait Al Thuraya City Training Course Fees: © Euro

Introduction

The main goal of this short course is to familiarize the participants with designing the layout of a port as well as the port-related structures in the port area or offshore areas such as breakwaters and berthing facilities.

Prerequisites

Basic knowledge of the coastal processes such as wind, waves, tides, and tidal currents.

Learning Objectives

Upon completion, the participant should be able to:

- List different types of sea-going vessels and identify the main characteristics of the ships.
- Explain the international functions of a port and different aspects of port management.
- Implement various steps in port master-planning.
- Determine the main dimensions of different terminals in the port.
- Determine the alignment and dimensions of the approach channel and the main dimensions of the wet infrastructure of the port.
- Design the details of berthing facilities for different types of berths.
- Include uncertainty in port planning and management by adaptive planning.

Target Audience

This course is useful for engineers, and infrastructure managers involved in the design and/or supervision of ports and coastal structures.

Having knowledge about the coastal processes such as wind, waves, tides and tidal currents is necessary.

Outline

Day 1: Maritime Transport & Port Functions

Overview of maritime transport.



- Types of merchant ships and main characteristics.
- · Commodities and vessel types.
- International functions of a port.
- Port management and organization.

Day 2: Port Master Planning

- Port planning methodology and process.
- Key steps in master planning.
- Integration of port functions and facilities.
- · Adaptive planning and handling uncertainty.
- Case studies of port master plans.

Day 3: Design of Wet Areas

- Ship maneuvering and hydrodynamic behavior.
- Approach channel alignment and dimensions.
- Maneuvering areas within the port.
- Port basins and berth areas design principles.
- Safety and efficiency in wet infrastructure.

Day 4: Terminals & Port Capacity

- Terminal services and their role in port operations.
- Types of terminals container, bulk, liquid, etc..
- Components of terminal infrastructure.
- Terminal capacity assessment.
- Determining terminal dimensions.
- Introduction to queuing theory in port planning.

Day 5: Berthing Structures Design



- Site selection and investigations.
- Determination of design parameters.
- Design sequence of berthing structures.
- Typical layouts and components.
- Structural design criteria and construction methods.
- Choice of construction equipment.
- Case examples of berthing structures.



Registration form on the Training Course: Port Planning and Infrastructure Design

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