



*Training Course:
Port Planning and Infrastructure Design*

*4 - 8 October 2026
Dubai (UAE)*

Training Course: Port Planning and Infrastructure Design

Training Course code: MM234841 From: 4 - 8 October 2026 Venue: Dubai (UAE) - Training Course Fees: 5830 € Euro

Introduction

Ports are critical enablers of global trade and economic development, requiring strategic planning and robust infrastructure to handle increasing cargo volumes, evolving vessel sizes, and complex logistics demands. Effective port planning and infrastructure design ensure operational efficiency, safety, sustainability, and long-term competitiveness.

This program, developed by [Global Horizon Training Center](#), provides participants with a comprehensive understanding of port planning methodologies, infrastructure design principles, and modern engineering practices. It integrates technical, operational, and strategic perspectives to support the development and expansion of port facilities.

Participants will gain practical insights into port master planning, layout design, capacity analysis, and infrastructure optimization, enabling them to contribute effectively to port development and modernization projects.

Course Objectives

By the end of this program, participants will be able to:

- Understand the principles of port planning and infrastructure development
- Analyze port capacity and future demand requirements
- Design efficient port layouts and terminal configurations
- Evaluate berth, yard, and cargo handling infrastructure
- Apply engineering and operational considerations in port design
- Integrate environmental and sustainability factors into planning
- Assess risks and feasibility of port development projects
- Support strategic decision-making in port investments

Target Audience

This program is designed for:

- Port and Terminal Managers
- Marine and Civil Engineers
- Infrastructure and Planning Specialists
- Government and Port Authority Officials
- Logistics and Supply Chain Professionals
- Consultants involved in port development projects

Outline

Day 1: Fundamentals of Port Planning

- Role of ports in global trade and logistics
- Types of ports and terminal functions
- Principles of port planning and development
- Port master planning concepts
- Stakeholder analysis and regulatory considerations

Day 2: Infrastructure Design and Layout Planning

- Port layout design principles
- Berth design and quay structures
- Yard planning and storage systems
- Cargo handling infrastructure
- Equipment selection and integration

Day 3: Capacity Planning and Operational Efficiency

- Demand forecasting and capacity analysis
- Identifying bottlenecks and constraints
- Optimizing vessel turnaround and berth utilization
- Workflow design and process integration
- Performance indicators in port operations

Day 4: Engineering, Environmental, and Sustainability Considerations

- Marine and civil engineering aspects of port design
- Environmental impact assessment EIA
- Coastal and marine conditions waves, tides, sedimentation
- Sustainable and green port design principles
- Climate resilience and future-proofing infrastructure

Day 5: Project Feasibility, Risk Management, and Strategic Development

- Feasibility studies and investment appraisal
- Risk assessment in port development
- Financial and economic evaluation
- Project management and implementation planning
- Final workshop: Designing a port infrastructure project

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

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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