



*Training Course:
Design Considerations for Marine Terminals*

*17 - 21 January 2027
Cairo (Egypt)*

Training Course: Design Considerations for Marine Terminals

Training Course code: MM234840 From: 17 - 21 January 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Marine terminals are complex infrastructures that serve as critical interfaces between sea and land transportation systems. Their design must address a wide range of operational, engineering, environmental, and logistical considerations to ensure efficiency, safety, and long-term sustainability.

This program, developed by [Global Horizon Training Center](#), provides participants with a comprehensive understanding of the key design considerations for marine terminals. It focuses on terminal layout, berth design, cargo handling systems, operational workflows, and integration with hinterland logistics.

Participants will gain practical insights into designing marine terminals that optimize capacity, enhance operational performance, and meet modern industry requirements, while addressing environmental and regulatory constraints.

Course Objectives

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

- Understand the principles of marine terminal design
- Identify key factors influencing terminal layout and infrastructure
- Design efficient berth, yard, and cargo handling systems
- Integrate operational and logistical requirements into terminal design
- Evaluate environmental and sustainability considerations
- Apply safety and risk management principles in terminal design
- Optimize terminal capacity and operational efficiency
- Support planning and development of modern marine terminals

Target Audience

This program is designed for:

- Marine and Civil Engineers
- Port and Terminal Managers
- Infrastructure and Design Consultants
- Logistics and Operations Professionals
- Government and Port Authority Personnel
- Professionals involved in port and terminal development

Outline

Day 1: Fundamentals of Marine Terminal Design

- Overview of marine terminal functions and types
- Role of terminals in global supply chains
- Key design principles and objectives
- Stakeholder and operational requirements
- Regulatory and compliance considerations

Day 2: Berth and Quay Design

- Berth planning and vessel accommodation
- Quay wall design and structural considerations
- Fender and mooring systems
- Draft, depth, and navigation channel requirements
- Vessel traffic and maneuvering analysis

Day 3: Yard Layout and Cargo Handling Systems

- Yard planning and storage optimization
- Container, bulk, and liquid cargo terminal design
- Equipment selection STS cranes, RTGs, conveyors
- Workflow design and operational efficiency
- Integration with intermodal transport systems

Day 4: Environmental, Safety, and Sustainability Considerations

- Environmental impact assessment EIA
- Coastal and marine environmental factors
- Safety and risk management in terminal design
- Green terminal initiatives and energy efficiency
- Climate resilience and sustainable design practices

Day 5: Capacity Optimization and Strategic Planning

- Terminal capacity analysis and forecasting
- Identifying and eliminating bottlenecks
- Performance indicators and benchmarking
- Financial and economic considerations
- Final workshop: Designing an optimized marine terminal

Registration form on the Training Course: Design Considerations for Marine Terminals

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

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