



Oil Marine Terminals Operations & Management Course

23 - 27 Nov 2026
Barcelona (Spain)



Oil Marine Terminals Operations & Management Course

Ref.: 16433_1020465 **Date:** 23 - 27 Nov 2026 **Location:** Barcelona (Spain) **Fees:** 6200 Euro

Introduction:

The Oil Marine Terminals Operations and Management course provides professionals with an understanding of the complexities involved in the operation and management of oil marine terminals. This course delves into the critical aspects of cargo handling, storage systems, vessel operations, safety protocols, and terminal management. Participants will gain insights into the latest industry standards, safety regulations, and best practices essential for efficient and secure terminal operations.

Through a blend of theoretical knowledge and practical applications, the Oil Marine Terminals Operations and Management program aims to enhance the competencies of individuals involved in the oil and gas marine terminal sector. It emphasizes real-world scenarios, risk assessment techniques, and emergency response strategies to prepare participants for the dynamic challenges of terminal operations. Attendees will contribute effectively to the safe and efficient management of oil marine terminals.

Targeted Groups:

This Oil Marine Terminals Operations and Management training targets professionals seeking specialized knowledge and skills:

- Terminal Managers and Supervisors.
- Safety and Environmental Officers.
- Marine Operations Coordinators.
- Cargo Handling Personnel.
- Maintenance Engineers.
- Emergency Response Teams.
- Regulatory Compliance Officers.
- Port Authorities and Inspectors.

Course Objectives:

Participants will achieve the following objectives by completing the Oil Marine Terminals Operations and Management Course:

- Understand the properties and hazards associated with various cargoes handled at marine terminals.
- Gain proficiency in the design, operation, and maintenance of storage and transfer systems.
- Learn the intricacies of harbor infrastructure, vessel compatibility, and docking procedures.
- Master safety and risk management practices, including fire prevention and emergency response.
- Develop skills in terminal management, focusing on operational efficiency and regulatory compliance.
- Analyze real-world scenarios to apply theoretical knowledge in practical settings.

Targeted Competencies:

Participants will gain the following competencies during the Oil Marine Terminals Operations and Management program:

- Ability to assess and manage the risks associated with hazardous cargoes.
- Expertise in the operation and maintenance of storage tanks and transfer systems.
- Knowledge of harbor design, vessel compatibility, and docking operations.
- Proficiency in implementing safety measures and emergency response protocols.
- Skills in managing terminal operations, ensuring compliance with international standards.
- Capability to conduct risk assessments and develop mitigation strategies.

Studying Scenarios:

In this Oil Marine Terminals Operations and Management training, participants will develop their skills through the analysis of the following scenarios:

- Managing a spill response during cargo transfer operations.
- Evaluating the impact of weather conditions on terminal operations.
- Implementing safety measures during vessel berthing and unberthing is crucial.
- Conducting risk assessments for new terminal infrastructure projects.
- Responding to fire hazards in confined spaces within storage areas.

Course Content:

Unit 1: Cargo Properties:

- Identification and classification of dangerous cargoes.
- Understanding toxicity levels and their implications.
- Recognizing confined spaces and associated risks.
- Assessing breathable atmospheres and ventilation requirements.
- Analyzing hydrocarbon properties and behavior.
- Handling crude oil and its specific challenges.
- Determining Upper and Lower Explosive Limits UEL & LEL.
- Understanding Boiling Liquid Expanding Vapor Explosions BLEVE.
- Recognizing and mitigating pancake cloud explosions.
- Implementing fire and explosion prevention strategies.

Unit 2: Storage and Transfer:

- Overview of storage tank types and their applications.
- Design considerations for atmospheric aboveground storage tanks.
- Exploring floating roofs, fixed roofs, and variable vapor spaces.
- Maintenance and Inspection Protocols for Storage Tanks.
- Understanding pressurized tank systems.
- Design and operation of centrifugal pumps in transfer systems.
- Piping systems: layout, materials, and maintenance.
- Flow and pressure matching in transfer operations.
- Marine loading arms and hoses: design, maintenance, and safety.
- Lightning protection systems in terminal operations.

- Ship/Shore Safety Checklist: Components and Implementation.
- Best practices for ship-to-shore cargo transfers.

Unit 3: Harbor and Vessels:

- Understanding the roles of jetties, quays, wharves, and Single Buoy Moorings SBMs.
- Design and construction considerations for harbor infrastructure.
- Impact of tidal effects on harbor operations.
- Depth constraints and dredging operations: challenges and solutions.
- SBM design and construction: materials and safety considerations.
- Compatibility of hoses with various cargo types.
- Marking and testing procedures for hoses.
- Storage and maintenance practices for hoses.
- Disposal methods for tank washings, slops, and dirty ballast.
- Bunkering operations: procedures and safety measures.
- Communication protocols during vessel operations.
- Emergency response plans for harbor incidents.

Unit 4: Safety and Risk:

- Identifying potential ignition sources in terminal operations.
- Managing electrostatic charge risks and mitigation strategies.
- Hazardous zone classification: understanding and application.
- Selection and maintenance of intrinsically safe equipment.
- Fire detection systems: types and installation requirements.
- Firefighting systems: design, maintenance, and operation.
- Shipboard firefighting systems: coordination with terminal operations.
- Conducting Risk Assessments: Methodologies and Tools.
- Risk management strategies: implementation and monitoring.
- Qualitative and quantitative risk assessment techniques.
- Understanding and managing terminal-related risks.

Unit 5: Terminal Management:

- Planning and scheduling of storage and transfer operations.
- Berthing support: coordination and safety measures.
- Cargo transfer support: procedures and best practices.
- Emergency response planning: development and execution.
- Vessel departure support: coordination and safety checks.
- Security measures and vessel access control.
- Understanding international regulations and requirements.
- Addressing current pain points in terminal operations.
- Strategies for cost-effectiveness in terminal management.
- Enhancing customer service through efficient operations.
- Managing traffic capacity and optimizing terminal throughput.
- Exploring opportunities for future optimization in terminal operations.

Final Insights & Key Takeaways:

This course offers a comprehensive understanding of the multifaceted operations and management of oil marine terminals. Participants will enhance safety, efficiency, and compliance in terminal operations.



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