

OIL AND GAS MARINE TERMINALS: OPERATIONS, MANAGEMENT AND SAFETY IN ACCORDANCE WITH INTERNATIONAL STANDARDS

“Ensure Safe, Efficient, and Compliant Marine Terminal Operations Aligned with Global Industry Standards”

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

Marine terminals play a critical role in the global oil and gas supply chain, serving as key points for the storage, handling, and transfer of crude oil, refined products, and liquefied gases. Managing these facilities requires a deep understanding of international standards, operational procedures, safety regulations, and environmental protection measures.

The Oil and Gas Marine Terminals: Operations, Management and Safety in Accordance with International Standards course provides comprehensive insight into the design, operation, and management of marine terminals handling petroleum and petrochemical products. Participants will gain practical knowledge of terminal operations, tanker interface management, cargo handling procedures, and safety protocols based on leading international guidelines such as OCIMF, ISGOTT, IMO, MARPOL, and ISO standards.

This course equips professionals with the expertise to ensure operational efficiency, minimize risks, maintain compliance, and implement best practices for the safe management of terminal facilities.

Objectives

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

- Understand the functions and components of marine terminals in the oil and gas industry.
- Apply international standards (OCIMF, ISGOTT, IMO, MARPOL, etc.) in terminal operations.
- Manage tanker operations, cargo loading/unloading, and transfer systems effectively.
- Identify and mitigate operational, environmental, and safety risks.
- Implement emergency preparedness and spill response procedures.
- Ensure compliance with safety, security, and pollution prevention regulations.
- Optimize terminal efficiency and performance through modern management techniques.

Why Attend

Marine terminals are high-risk environments where precision, safety, and compliance are vital. This course provides the essential knowledge to operate and manage these facilities effectively while adhering to international standards.

Participants will gain a strong foundation in terminal operations, learn to manage tanker interfaces safely, and develop practical strategies for risk reduction and environmental protection. This training is ideal for professionals seeking to enhance their technical, managerial, and safety competencies in marine terminal management.

Target Audience

This course is designed for professionals involved in oil and gas terminal operations, logistics, and management, including:

- Marine Terminal Managers and Supervisors
- Operations and HSE Officers
- Port and Terminal Engineers
- Marine and Cargo Inspectors
- Shipping and Logistics Coordinators
- Petroleum and Chemical Engineers
- Safety and Risk Management Professionals
- Regulatory and Compliance Officers

Individual Benefits

- Develop in-depth understanding of terminal operations and standards.
- Gain practical knowledge to manage marine loading/unloading safely.
- Learn to prevent accidents, spills, and environmental incidents.
- Enhance decision-making and leadership in marine operations.
- Strengthen professional qualifications and career growth opportunities.

Organizational Benefits

- Improve operational efficiency and minimize downtime.
- Ensure compliance with international maritime and safety regulations.
- Reduce operational risks and environmental liabilities.
- Enhance the safety culture across terminal operations.
- Strengthen organizational reputation through adherence to best practices.
- Build internal capacity for sustainable terminal management.

Instructional Methodology

The training program uses a practical and interactive approach, combining theory with real-world applications to ensure a strong understanding of terminal operations and safety management. Teaching methods include:

- Expert-led presentations and interactive discussions
- Real-life case studies and operational scenarios
- Simulation-based risk and incident management exercises
- Video demonstrations and process flow visualizations
- Group activities, role plays, and knowledge sharing sessions
- Assessments and feedback for continuous improvement

Course Outline

Module 1: Overview of Marine Terminals in the Oil and Gas Industry

- Role and importance of marine terminals in global trade
- Types of terminals – crude oil, refined products, and LNG terminals
- Terminal layouts, facilities, and operational flow

Module 2: Terminal Design and Infrastructure

- Storage tanks, jetties, pipelines, and pumping systems
- Loading arms, hoses, and transfer systems
- Instrumentation, metering, and control systems

Module 3: Cargo Operations and Tanker Interface Management

- Pre-arrival planning and terminal-tanker communication
- Berthing and mooring operations
- Cargo loading/unloading procedures and documentation
- Ballast water management and pollution prevention

Module 4: International Standards and Regulations

- Overview of OCIMF, ISGOTT, IMO, and MARPOL frameworks
- Terminal management system (TMSA) and best practices
- Safety and pollution prevention requirements
- ISO standards for operational excellence

Module 5: Health, Safety, and Environmental Management (HSE)

- Hazard identification and risk assessment (HAZID/HAZOP)
- Fire prevention, detection, and firefighting systems
- Oil spill prevention and response procedures
- Environmental monitoring and waste management

Module 6: Security and Emergency Response Management

- Terminal and port security (ISPS Code)
- Emergency preparedness and contingency planning
- Incident reporting, investigation, and recovery procedures
- Crisis communication and coordination with authorities

Module 7: Terminal Operations Management and Performance

- Operational efficiency and performance KPIs
- Scheduling, maintenance, and reliability management
- Energy management and cost optimization
- Continuous improvement and digital transformation

Module 8: Case Studies and Best Practices

- Analysis of real incidents in marine terminals
- Lessons learned and global benchmarks
- Group discussions and scenario-based exercises

Certification

Upon successful completion, participants will receive a Certificate in Oil and Gas Marine Terminals: Operations, Management and Safety in Accordance with International Standards, signifying their comprehensive understanding of terminal operations, international compliance, and safety excellence.

This certification demonstrates the participant’s ability to manage and operate marine terminals safely, efficiently, and in full compliance with global standards — a key credential for professionals in the oil, gas, and maritime industries.

Why Choose MAWA Events

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