



Loading & Tank Farm Operation & Performance Training

17 - 21 Jan 2027
Manama (Bahrain)



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Ref.: 16093_1005913 **Date:** 17 - 21 Jan 2027 **Location:** Manama (Bahrain) **Fees:** 5500 Euro

Introduction

Efficient management of loading terminals and tank farm facilities is a core operational requirement within oil and gas logistics and storage environments. This Loading, Tank Farm Operation, and Performance training course delivers structured theoretical knowledge covering operational efficiency, safety control, and performance optimization across loading and storage facilities.

The Loading, Tank Farm Operation, and Performance course explores how loading operations interact with tank farm operation and performance to support continuous, safe, and compliant product movement. Participants examine the characteristics of crude oil, refined products, and bulk liquids, and their operational impacts on storage tanks and transfer systems. It addresses the full lifecycle of tank farm operations, from receipt and storage to loading and dispatch.

This Loading, Tank Farm Operation, and Performance program emphasizes operational reliability, risk prevention, and performance consistency. Participants gain insight into regulatory compliance, measurement accuracy, and operational excellence. It supports professionals responsible for managing industrial tank farm operations and loading terminal performance in complex oil and gas environments.

Targeted Groups

This Loading, Tank Farm Operation, and Performance training targets professionals seeking knowledge and skills:

- Terminal operations managers are responsible for daily loading performance.
- Tank farm supervisors oversee storage and transfer activities.
- Loading and unloading supervisors manage bulk liquid loading.
- Oil and gas tank farm engineers and technicians.
- HSE professionals supporting tank farm safety and performance.
- Maintenance engineers are involved in storage tank reliability.
- Pipeline and transfer operations personnel.
- Measurement and custody transfer specialists.
- Logistics and supply chain planners in loading terminals.
- Regulatory and compliance officers in oil and gas facilities.

Course Objectives

Participants will achieve the following objectives by completing the Loading, Tank Farm Operation, and Performance course:

- Understand the behavior of crude oil and refined products during storage.
- Recognize how product properties affect loading operations.
- Identify the types of storage tanks used in industrial tank farm operations.
- Apply correct operational practices for tank farm operation.
- Explain tank gauging principles used in loading and storage facilities.
- Understand custody transfer requirements and fiscal measurement concepts.

- Analyze loading terminal performance challenges.
- Apply terminal planning concepts for continuous operations.
- Interpret standards governing oil and gas tank farm operations.
- Understand regulatory compliance requirements for tank farm operations.
- Evaluate safety risks associated with bulk liquid loading.
- Explain emergency response planning in tank farm environments.
- Understand blending principles for product quality control.
- Identify operational inefficiencies affecting tank farm performance.
- Support tank farm performance optimization initiatives.
- Align operational activities with tank farm operational excellence.
- Understand security controls in loading terminal operations.
- Evaluate operational data for performance improvement.

Targeted Competencies

Participants will gain the following competencies during the Loading, Tank Farm Operation, and Performance program:

- Strong understanding of tank farm operation and performance drivers.
- Knowledge of loading operations and tank farm training principles.
- Ability to explain oil and gas tank farm operations workflows.
- Familiarity with bulk liquid loading and tank farm systems.
- Understanding of the integration of the storage tank and loading operations.
- Awareness of tank farm safety and performance requirements.
- Knowledge of tank farm operations compliance obligations.
- Ability to interpret measurements and gauge data.
- Understanding of terminal scheduling and planning logic.
- Awareness of performance indicators in loading terminals.
- Familiarity with advanced tank farm operation concepts.
- Knowledge of the structure of industrial tank farm operations.
- Understanding of tank farm management and performance training concepts.
- Awareness of continuous improvement in loading and storage facilities.

Studying Scenarios

In this Loading, Tank Farm Operation, and Performance training, participants develop skills through the following scenarios:

- Evaluating tank farm performance during high loading demand.
- Analyzing bulk liquid loading disruptions.
- Reviewing tank gauging discrepancies and measurement errors.
- Assessing tank farm safety incidents and response actions.
- Studying blending inconsistencies affecting product quality.
- Reviewing terminal scheduling conflicts.
- Analyzing storage tank operational limitations.
- Evaluating compliance gaps in tank farm operations.
- Reviewing performance optimization initiatives in tank farms.
- Assessing operational excellence practices in loading terminals.

Course Content

Unit 1: Crude Oil and Product Properties & Handling

- Classification of crude oil used in tank farm operations.
- Physical properties affecting storage tank performance.
- Chemical characteristics influencing loading operations.
- Behavior of refined products in bulk liquid loading.
- Vapor pressure impact on tank farm safety and performance.
- Temperature control requirements in storage tanks.
- Product contamination risks in tank farm operations.
- Handling procedures for volatile products.
- Static electricity risks during loading operations.
- Product degradation during long-term storage.
- Wax, sediment, and water accumulation in tanks.
- Blending fundamentals within tank farm systems.
- Quality control principles in loading and storage facilities.
- Environmental considerations in product handling.
- Operational controls for industrial tank farm operations.

Unit 2: Storage Tank Types and Operational Challenges

- Fixed roof tank applications in tank farm operation.
- Floating roof tank functionality and performance limits.
- Internal floating roof systems in oil and gas tank farms.
- Bullet tanks for pressurized products.
- Tank selection criteria based on product type.
- Common operational failures in storage tanks.
- Leak detection methods in tank farm environments.
- Corrosion mechanisms affecting tank integrity.
- Inspection routines supporting tank farm safety.
- Maintenance planning for optimizing tank farm performance.
- Operational troubleshooting in loading terminals.
- Tank repair decision-making principles.
- Reliability challenges in aging tank farms.
- Decommissioning considerations for obsolete tanks.
- Environmental controls during tank retirement.

Unit 3: Tank Gauging, Custody Transfer, and Measurement

- Purpose of tank gauging in tank farm operations.
- Manual gauging procedures and limitations.
- Automatic tank gauging systems overview.
- Radar-based measurement technologies.
- Servo and hybrid gauging systems.
- Accuracy requirements for loading operations.
- Custody transfer principles in oil and gas tank farm operations.
- Fiscal metering concepts in loading terminals.
- Measurement standards governing tank farm performance.
- Calibration processes for gauging equipment.
- Measurement uncertainty management.
- Data reconciliation in storage tank operations.
- Real-time monitoring in loading terminals.
- Troubleshooting measurement discrepancies.
- Performance reporting using gauging data.

Unit 4: Tank Design Standards, Codes, and Compliance

- Overview of international tank design standards.
- API requirements for storage tank construction.
- ISO standards affecting compliance in tank farm operations.
- Design considerations for loading and storage facilities.
- Foundation design and settlement monitoring.
- Material selection for corrosion resistance.
- Fire protection systems in tank farms.
- Spill containment and environmental safeguards.
- Regulatory inspection requirements.
- Certification processes for storage tanks.
- Risk-based inspection concepts.
- Upgrading tanks for compliance improvement.
- Documentation requirements for regulators.
- Safety audits in tank farm operations.
- Compliance management for operational excellence.

Unit 5: Terminal Planning, Scheduling, Management, and Security

- Terminal capacity planning for loading operations.
- Product flow optimization in tank farm systems.
- Scheduling principles for loading terminals.
- Inventory control in tank farm operations.
- Reconciliation practices for storage accuracy.
- Automation systems supporting tank farm performance.
- SCADA integration in loading and storage facilities.
- Emergency response planning for tank farms.
- Oil spill prevention and control strategies.
- Security threats in loading terminal operations.
- Access control and surveillance measures.
- Cargo handling safety procedures.
- Import and export operational coordination.
- Documentation and compliance workflows.
- Continuous improvement in tank farm management.

Final Insights & Key Takeaways

The Loading, Tank Farm Operation, and Performance course builds a comprehensive understanding of storage and loading systems within oil and gas environments. Participants gain clarity on how operational discipline supports safety, compliance, and performance optimization. The course strengthens theoretical competence across tank farm operation, measurement accuracy, and terminal management. This knowledge promotes professional growth and sustained operational excellence in industrial tank farm operations.



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