

ISTANBUL – TURKEY

09-13 Feb 2026

TANK FARM OPERATIONS AND PERFORMANCE

INTRODUCTION

The processing, transporting and storing of crude oil and refined petroleum products, in tank farms, involves custody transfers of partner and commingled stock, significant volumes of data from various sources and blending operations complexities. In addition, as these liquids are loaded and offloaded in bulk quantities, there is a large transfer of high value that makes it imperative for tank farm operators to efficiently manage their inventory and maximize their return on investment.

Upon successful completion of this training course, participants will gain knowledge on tank farms, methods of tank gauging, crude oil product specifications, product blending and tank mixing, dealing with oil spill emergencies, cleaning of crude oil and heavy product tanks, understanding and employ a work permit system, pigging operations of oil pipelines, quality assurance and control, contingency and safety procedures.

Topics discussed will include:

- Crude Oil and Product Properties & Handling
- Identify the Different Types of Tanks, Troubleshoot, Review and Improve the Operation of a Tank Farm
- Tank Gauging Techniques, Custody Transfer and Fiscal Metering Methods
- Tank Design Standards Codes and Regulations
- Terminal Planning and Scheduling
- Management & Operations
- Identification of Different Types of Tanks
- Troubleshooting, Review and Improvement of Tank Farm Operations

- Security & Safety and other Essential Topics related to Import / Export of Oil & Liquefied Gas

OBJECTIVES

The tank farm's mission is to perform its daily operations while maintaining a safe storage terminal.

Attendance of this five-days training course will ensure:

- In-depth knowledge of operations & management of crude oil and product terminals
- Apply proper planning and scheduling techniques in storage & transfer systems
- Command the various planning and transfer requirements for terminals
- Develop good terminal management skills
- Apply safe practices and procedures during the various operations in terminals including oil spill contingency and emergency response plans
- Learn techniques on blending recipes for on specification products
- Understand the limitations of tank gauging methods and learn up to date new technologies and methodologies for accurate tank measurement
- Perform calculations for emissions discharges and dispersion with the aid of dedicated simulation software

Training Methodology

This Tank Farm Operations and Performance training course includes interactive sessions with questions, discussions and problem solving under supervision along with group exercises. It will be conducted as an interactive course that encourages participants to share their own experiences and apply the course material to real-life situations.

WHO SHOULD ATTEND?

This Tank Farm Operations and Performance training course is designed for anyone employed in oil refining or anyone working in an oil and or product storage facility. In addition, it is intended, but not limited to professionals involved in handling, loading, or discharging of oil and gas cargoes.

This training course is specifically designed for:

- Marine Terminal Managers, Supervisors and Superintendents
- Oil and Gas Refinery or Product Storage Facility Personnel
- Oil and Gas Operators and Engineers
- Facility Managers and Coordinators
- Process Engineers, Project Managers, Mechanical Engineers, Electrical Engineers, Instrumentation / Control Engineers, Technical Staff
- Safety and Environmental Personnel
- Transfer Supervisors
- Oil and Gas Cargo Officials

Course Outline

Day 1

Crude Oil and Product Properties

- Review of Energy Production and Consumption
- Tank Farm Operations, Planning and Scheduling
- Physical, Chemical & Hazardous Properties of Stored Products
- Effects of Physical & Chemical Properties on Choice of Storage
- Safety and Risk
- Ignition Sources – *Electrostatic charge – NFPA 77*

- Fire Detection, Firefighting & Protection

Day 2

Tank Types, Construction & Requirements for Stored Products

- Tank Farms Differences and Purpose
- Tank Design & Engineering considerations, API Codes & Standards
 - Crude & Refined Product Storage
 - LNG, LPG, CNG Storage
- Roof Types
 - Fixed, Dome & Cone
 - Floating Roof, Internal / External
 - Suction Levels Fixed / Floating
- Estimation and Measurement of Tank Emissions and Losses

Day 3

Tank Terminal Operations

- Tank Farm Layout, Secondary Containment, Bund Walls
- Emergency Response, Handling Oil Spills
- Water Drainage Systems Network and Process Water Treatment
- Ship to Shore Transfers, Ship Loading and Discharge Process
- The of Bill of Lading, Custody Transfer and Administration
- Tank Gauging and Metering, Meter Proving, Stock Loss & Pipeline Transfer Loss
- Sampling and Quality Control – ISO 17025

Day 4

Terminal Management

- Comingled Stock & Unpumpables

- Terminal Inventory Control & Inter Tank Transfers
- Changing Tanks Service
- Tank Calibration / Recalibration
- Instrumentation, Flow and Level Measurement
 - Spill and Overfill Control
 - Level Alarms / Independent Level Alarms
- Product Blending and Product Failures

Day 5

International Regulations & Requirements for Oil & Gas Marine Terminals

- The Seveso III Directive
- ISGOTT – *Required notifications in the event of a release*
- Release Detection, Response, Reporting and Investigation
- Tank Cleaning
- Gas Freeing and Confined Entry
- API 653 Tank Inspection
 - Tank Failure Causes and Prevention
 - Settling
 - Corrosion

Training course Prices:

Number of Participants	Course Price
1 Participant	KWD 1550.000
2 Participants	KWD 1500.000
3 Participants	KWD 1450.000
4 Participants	KWD 1400.000
5 Participants	KWD 1350.000
6 and above Participants	KWD 1300.000
