



External Training Course

Oil and Gas Marine Terminals

**(Understanding International regulations and World
Petroleum Fiscal Systems)**

From 14 Jan. To 18 Jan. 2024

From 11 Feb. To 15 Feb. 2024

From 28 Apr. To 02 May 2024

Carlton Down Town Hotel, Dubai, UAE

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INTRODUCTION

In today's oil & gas industry, the transport of crude and other refined products is predominantly done by large sea carriers. In this respect, the organization and safe & operation of marine terminals is considered of utmost importance for efficient transferring and storing of petrol products at the designated facilities. Professionals in charge of operating and managing of Oil & Gas Marine Terminals are required to have full and updated knowledge of Health, Safety, Security, and Environment (HSSE) aspects, including mechanical integrity of equipment and safety of operation procedures that are governed by international regulations and standards, ISGOTT, EMA, etc., together with the environmental pollution protection aspects, according to MARPOL Convention. In this Oil and Gas Marine Terminals training course, the participants coming from companies that operate marine terminals will be provided with the necessary knowledge and updated tools and skills that will enable them to successfully handle various technical and safety issues during terminal operations such as cargo transfer support, including custody transfer, emergency response and vessel berthing support, according to international regulations and standards. This Oil & Gas Technology training course will focus on both managerial and technical aspects of terminal operation that are prerequisite for successful operation of such complex facilities. This Oil and Gas Marine Terminals training course will include several workshops with real problems from the terminal practice which will enable discussions and exchange of experiences.

This Oil and Gas Marine Terminals training course will feature:

- Hydrocarbon Properties & Handling.
- Regulations & Requirements.
- Terminal Operation and Safety Management.
- Vessel Operations and Interaction with Terminal.
- Terminal Emergency Organization.
- Security & Safety According to International Standards.

OBJECTIVES

By the end of this Oil and Gas Marine Terminals training course, the participants will be able to:

- Identify the important aspects of operations of oil & gas marine terminals.
- Follow the international regulations & requirements.
- Carry out planning of storage & transfer systems for different petrol products.
- Understand the procedure of interaction with oil tankers and gas carriers.
- Manage and organize the emergency response plans in case of oil spill.
- Apply updated methods of risk assessment in marine terminal operations.

TRAINING METHODOLOGY

This Oil and Gas Marine Terminals training course will be conducted along workshop principles with formal lectures and interactive worked examples included in several workshops. Presented also will be several illustrative and instructive videos. The emphasis in this training course will be on the explanation of all technical points and providing answers to problems that are encountered in everyday situations related to operation and management of terminal facilities. Each learning point will be reinforced with practical examples. There will be ample opportunities for active discussion and sharing professional experiences and exchange that will help solidify the gained knowledge. All training course materials will be provided.

COURSE AGENDA & OUTLINE

DAY 1: Cargo Properties

- Seminar Overview and Introductions.
- Dangerous Cargos:
 - Toxicity.
 - Confined Spaces.
 - Breathable Atmospheres.
- Hydrocarbon Properties:
 - Crude Oil.
 - Liquified Petroleum Gas.
 - Liquified Natural Gas.
- Fires & Explosions:
 - UEL & LEL.
 - BLEVE.
 - Pancake Cloud Explosions.

DAY 2: Storage & Transfer

- Storage Tanks:
 - Atmospheric above Ground Storage Tanks.
 - Floating Roof, Fixed Roof, Variable Vapor Space and Pressurized Tanks.
 - Tank Inspections & Cleaning.
- Transfer Systems:
 - Centrifugal Pumps Design and Operation.
 - Piping Systems.
 - Flow and Pressure Matching.
- Ship-shore Transfers:

- Marine Loading Arms.
- The Ship / Shore Safety Checklist.
- Lightering.

DAY 3: Harbor & Vessels

- Jetties, Quays, Wharves & SBMs:
 - Harbour Design and Construction.
 - Depth Constraints & Dredging Operations.
 - Sizing & Tidal Effects.
 - SBM Design & Construction.
- Hoses:
 - Cargo Compatibility
 - Storage & Maintenance.
 - Marking & Testing.
- Shipboard Management:
 - Disposal of Tanks Washings, Slops & Dirty Ballast.
 - Communications & Emergency Response Plans.
 - Bunkering.

DAY 4: Terminal Management and Safety & Risk

- Storage & Transfer Planning.
- Berthing Support.
- Cargo Transfer Support.
- Emergency Response.
- Vessel Departure Support.
- Security and Vessel Access.
- International Regulations & Requirements for Oil & Gas Marine Terminals.
- Ignition Sources:
 - Electrostatic Charge.
 - Intrinsically Safe Equipment.
 - Hazardous Zone Classification.
- Fire Fighting & Protection:
 - Fire Detection Systems.
 - Shipboard Firefighting Systems.
 - Fire-fighting Systems.
- Risk:
 - Risk Assessments & Management.

DAY 5: World Fiscal Systems

- Petroleum Fiscal Systems.
- Fiscal Systems Classification.
- Systems around the World.
- Concessionary System.
- Production Sharing Contract.
- Risk Service Contracts.
- Technical Assistant (EOR) Contracts.
- JV Burden on Contractor.
- Direct State Participation.
- Work Commitments.