

Oil and Gas Marine Terminals: Operations, Management and Safety in Accordance with International Standards Training

Description

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Objectives

- Gain in-depth knowledge on operations & management of oil & gas marine terminals
- Recognize the international regulations & requirements for the oil & gas marine terminals
- Apply proper planning techniques in storage & transfer systems and command of the various planning and transfer requirements for oil & gas marine terminal
- Discuss the different vessel operations in the oil & gas marine terminal such as oil tankers (crude & product) and gas carriers (LNG / LPG)
- Develop good terminal management skills and employ various terminal support operations such as berthing support, cargo transfer support, emergency response and vessel departure support
- Apply proven safe practices and procedures during the various operations in oil & gas terminals and manage oil spill contingency and emergency response plans
- Employ the latest qualitative and quantitative risk assessment techniques in oil & gas marine terminal operations

Programme Outline

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
- Storage Tanks
- Atmospheric aboveground storage tanks
- Floating roof, fixed roof, variable vapour 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
- Lightering
- The Ship/Shore Safety Checklist

Harbour & Vessels

- Jetties, quays, wharves & SBMs
- Harbour design and construction
- Sizing & tidal effects
- Depth constraints & dredging operations
- SBM design & construction
- Hoses
- Cargo compatibility
- Marking & testing
- Storage & maintenance
- Shipboard management
- Disposal of tanks washings, slops & dirty ballast
- Bunkering
- Communications & emergency response plans

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Safety and Risk

- Ignition sources
- Electrostatic charge
- Hazardous zone classification
- Intrinsically safe equipment
- Fire fighting & protection
- Fire detection systems
- Fire fighting systems
- Shipboard firefighting systems
- Risk
- Risk assessments
- Risk management
- Qualitative and quantitative risk assessment techniques

Terminal Management

- 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

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