Training Course:

OPTIMIZING OIL & GAS MARINE TERMINALS: OPERATIONS, MANAGEMENT, MAINTENANCE & SAFETY

Training Course For One Week In

UAE, Dubai, Cityseason Suites Hotel

Which Be Held As Under Details:

Tel. : 00965 22610021 - 99600277, Fax : 00965 22630021
Email : info@abarsolutions.com, W. Site : www.abarsolutions.com
Abar Solutions Petroleum Consultancy Invite Your Employee To Participate With Us In Special Training Course As Under Details:

<table>
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<th>Course Name</th>
<th>OPTIMIZING OIL &amp; GAS MARINE TERMINALS: OPERATIONS, MANAGEMENT, MAINTENANCE &amp; SAFETY</th>
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** The Fees Includes: Lecturer, Training Material, Training Room With One Coffee Break Daily, Certificate Of Attendance In Last Day Training Course **

Course Description

⇒ This five day course is essential for those involved in the management and operation of onshore and off-shore terminals. Topics discussed include:

- Hydrocarbon properties & handling
- Regulations & Requirements
Course 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

Course Content & Outlines

⇒ Cargo Properties Course 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 & Transfer 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
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
Terminals 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 terminal