

Scandinavian Academy Training Center

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Riyadh - Al Khaleej District - Sheikh Abdul Aziz Bin Abdul Rahman Bin Bishr Street - 13223 - Office No. 5 | P.O.BOX : 13224

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

Code	City	hotel	Start	End	price	Language - Hours
OG-145SA	Riyadh	Hotel Meeting Room	2027-04-11	2027-04-15	12950 SR	En - 25

Introduction

This five day course is essential for those involved in the management and operation of on-shore and off-shore terminals

Topics discussed include:

- Hydrocarbon properties & handling
- Regulations & Requirements
- Terminal Planning
- Vessel Operations
- Terminal Management & Operations
- Security & Safety and other essential topics related to Export/Import Oil & Gas

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

Training Methodology

The seminar will be conducted along workshop principles with formal lectures, case studies and interactive worked examples. Relevant case studies will be provided to illustrate the application of each tool in an operations environment. Each learning point will be re-enforced with practical exercises. There will be ample opportunities for discussion and sharing experiences.

Organisational Impact

Professional management and operation of oil and gas marine terminals is vital to the budgetary success of the operations organisation. The organization will realise:

- Improved operational integrity
- Improved operational performance
- Improved equipment usage
- Better safety record
- Improved terminal profitability
- Improved terminal integration and operation.

Personal Impact

Delegates will enhance their competencies in the following areas:

- Operations & management of oil & gas marine terminals
- Understanding of international regulations & requirements for the oil & gas marine terminals
- Development of good terminal management skills
- Qualitative and quantitative risk assessment techniques in oil & gas marine terminal operations
- Vessel operations in the oil & gas marine terminal such as oil tankers (crude & product) and gas carriers (LNG / LPG)
- Planning techniques in stowage & transfer systems

SEMINAR OUTLINE

Cargo Properties

- Course Overview and Introductions
- Dangerous Cargos
  - Toxicity
  - Confined spaces
  - Breathable atmospheres
- Hydrocarbon properties
- Crude oil
- Liquified Petroleum Gas
- Liquified Natural Gas
- UEL & LEL
- BLEVE
- Pancake cloud explosions
- Fires & 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
- Marine Loading Arms
- Lightering
- The Ship/Shore Safety Checklist
- Ship-shore Transfers

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
- Disposal of tanks washings, slops & dirty ballast
- Bunkering
- Communications & emergency response plans
- Shipboard management

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 assessments
- Risk management
- Qualitative and quantitative risk assessment techniques
- Risk

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

The Scandinavian Academy for Training Center adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training Center.

Program Timings: 9:00 AM to 2:00 PM

The program includes:

- A daily buffet provided during the sessions to ensure participants comfort.
- A closing ceremony on the final day to distribute certificates and celebrate participants achievements.
- **Note: All prices are exclusive of 15% Value Added Tax (VAT).**

Our Success Partners

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