



M0038: Loading Operation

Training Description:

This intensive training course is essential for marine terminal personnel. All applicable marine terminal regulations (current & proposed) and policies pertaining to marine transfer operations and spill contingency planning will be discussed. Participants will receive a solid foundation of the requirements for oil & hazardous material facilities and transfer operations.

The course will concentrate on Oil & Gas Marine Terminals and will cover all Operational and Maintenance requirements for Loading Arms at Oil/Gas marine terminals from the Human Factor up to the Vessel/Tanker operations within the industry. This will cover the On-shore/Off-shore Terminals, Hydrocarbon properties & Handling, Regulations & Requirements, Terminal Planning, Vessel Operations, Terminal Management & Operations, Security & Safety and other essential topics related to Export/Import of Oil.

The topics presented during this training course will provide companies with the information necessary to meet current and proposed compliance requirements more economically while maintaining the highest level of safety.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Apply an in-depth knowledge on loading arms including the operations and management of oil & gas marine terminals
- ✓ Implement the international regulations and requirements for the oil & gas marine terminals and acknowledge the importance of the human factor in the operation and management of the marine terminal
- ✓ Employ proper planning techniques in stowage & transfer systems including loading arm design and modus operandi and the different suppliers of loading arm and command the various planning and transfer requirements for oil & gas marine terminal
- ✓ Discuss the different vessel operations in the oil & gas marine terminal including oil tanker (crud & product)
- ✓ Recognize loading arm troubleshooting with the us FMEA and RCFA to optimize maintenance strategies and activities on loading arms
- ✓ Gain a good terminal management skill and employ the various terminal support operations as well as maintenance of aspects of loading arms and safe operations in oil gas terminals
- ✓ Employ proper qualitative and quantitative risk assessment techniques in oil & gas marine terminal operations

Training Designed for:

This course is intended for Marine Terminal Managers, Superintendents, Supervisors and Engineers, Port Captains, Custody Superintendents, Facility Managers and Facility Training Coordinators, Safety & Environmental Managers, Engineers and Officers, Spill Management Team Members, Transfer Supervisors, Marine Shipping Coordinators and Dock Maintenance Planners.

Training Requirement:

"Hand's on practical sessions, equipment and software will be applied during the course if required and as per the client's request."

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client's learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ The Onshore/Offshore Oil & Gas Marine Terminal
 - Introduction of Director & Course Participants – Alignment of Expectations, Introduction to the Course with Outline of Course Objectives (Pre-Reads), Definitions to be Used in the Course & in Line with Terminal Practice (Pre-Reads), Basic Properties of Hydrocarbons & Types of Cargoes – Why the Terminal? Historical Developments
- ❖ Oil & Gas Marine Terminal: Regulations & Requirements
 - Regulations for Terminals & for Vessels while at Terminals (International, National, Local Port, Terminal), Major Terminal Management Concerns (Fire, Weather, Pollution, Ship Stability & Integrity, Communications, Documentation, Adequacy of Emergency Response Plans, Adequately Trained Terminal & Vessel Personnel)
- ❖ Oil & Gas Marine Terminal – The Human Factor
 - The Human Factor in Terminal Operations

DAY TWO:

- ❖ Oil Terminal Planning-Stowage & Transfer Systems
 - Emphasis on Loading Arm Design & Modus Operandi, & the Different Suppliers
 - Terminal Planning Factors – Onshore & Offshore
- ❖ General Terminal Planning & Transfer Requirements
 - Terminal Planning Factors

DAY THREE:

- ❖ Vessel Operations (Oil Tankers – Crude & Product)
 - Planning Oil Tanker Stowage & Cargo Transfer Handling, Vessel Stability & Structural Integrity Considerations, Loading, Discharging
- ❖ Loading Arm Troubleshooting & the Use of FMEA & RCFA to Optimize Maintenance Strategies & Activities on Loading Arms
- ❖ Vessel Operations (Special Topics)
 - The Use of Inert Gas Systems, The Use of Crude Oil Washing & Tank Cleaning, Ballasting Systems for Tankers & Gas Carriers

DAY FOUR:

- ❖ Terminal Management & Support Operations
 - Management & Supervision, Terminal Support Operations
 - Safety & Security in the Marine Terminal, Maintenance & Repair
- ❖ Maintenance Aspects of Loading Arms & Safe Operations in Oil & Gas Terminals
 - Safety & Safety Culture, Weather Considerations, Hazardous Cargoes
- ❖ Practical Exercises/Case Studies

DAY FIVE:

- ❖ **Managing Custody Transfer Metering Stations**
 - Generalised Guidance on Operating a Hydrocarbon Metering Station
- ❖ **Qualitative & Quantitative Risk Assessments**
- ❖ **Participant Involvement in Their Own Case Studies**
- ❖ **Course Conclusion**
- ❖ **POST-ASSESSMENT and EVALUATION**

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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