



PE048: Oil Movement Storage and Troubleshooting

Training Description:

Correct management and operation of an oil and gas terminal is essential for a successful business. The processing, transporting and storing of crude oil or refined petroleum products in tank farms, involve custody transfers of partner and commingled stock, significant volumes of data from various sources and blending complexities.

In addition, as these liquids are loaded and offloaded in bulk quantities, there is a large transfer of high value that makes it imperative for tank farm operators to efficiently manage their inventory and maximize their return on investment.

Upon successful completion of this intensive training course, participants will have gained the right knowledge on oil production and recovery, oil terminals and tank farms, methods of tank gauging, storage of refrigerated LNG, oil products specifications, tank mixing, emergency of oil spills, cleaning of crude oil tanks, work permit system, gas transmission pipelines, pigging operations in crude oil pipelines, quality assurance and control, contingency and safety procedures etc.

Training Objectives:

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

- ✓ Acquire knowledge on oil production, recovery, dehydration and desalting and be able to understand the description and installation of a tank farm.
- ✓ Identify the different types of tanks and review and improve the operation of a tank farms and oil terminals
- ✓ Illustrate the process of gas freeing of tanks and vessels including confined entry for inspection maintenance and repair.
- ✓ Understand the steps and limitations of the various methods of gauging tanks
- ✓ Describe marine terminal & SPM operations and be able to explain the various product specifications
- ✓ Perform blending, tank mixing, meters and meter proving and cleaning of crude oil and product gasoline tanks
- ✓ Learn how oil spill emergencies are handled and how these are combated and mitigated
- ✓ Understand the causes of corrosion, be able to review the operation and cathodic protection of gas transmission lines
- ✓ Increase your knowledge on pigging of crude and gas pipelines and be able to demonstrate the process of ship loading and custody transfer
- ✓ Recognize the role and importance of quality assurance and control

Training Designed for:

This course is intended for Team Leaders, Project Professionals, Refinery Personnel, Oil Terminal Superintendent / Supervisors, Plant Supervisors, Process Engineers, Mechanical Engineers, Electrical Engineers, Instrumentation / Control Engineers, Technical Staff and Contractor Personnel involved in oil movement and storage.

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:

FIVE DAYS:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ **Overview Introduction**
 - Oil Production, Recovery, Dehydration and Desalting
 - Crude Oil Processing
 - Oil Terminal & Tank Farm
 - Types of Tanks
- ❖ **Tanks and Facilities**
 - Gas Freeing of Tanks and Vessels
 - Methods of Gauging Tanks
 - Static Electricity
 - General Description and Installation of Tank Farms
 - Refrigeration of LPG, Handling and Bulk Storage
- ❖ **Blending and Loading Operations**
 - Marine Terminal Loading: SPM Operations
 - Product Specifications and Blending
 - Tank Mixing & Tank-Tank Transfer
 - Meter Proving and Meter Factor
- ❖ **Above Ground Storage Tanks**
 - Oil Spills Emergency
 - Cleaning of Crude Oil and product Tanks
 - Gauging of Marine Cold Product Tanks
 - Gas Transmission Lines: Operation & Cathodic Protection
- ❖ **Cleaning & Loading**
 - Pigging of Crude & Gas Pipelines
 - Ship Loading and Checklist
 - Quality Assurance, Control and Work Permit System
- ❖ Course Conclusion
- ❖ POST-ASSESSMENT and EVALUATION

Training Methodology:

This training course is a hands-on, stimulating learning experience. The training course will be highly interactive, with opportunities to advance your opinions and ideas. Participation is encouraged in a supportive environment. To ensure the concepts introduced during the training course are understood,

they will be reinforced through a mix of learning methods, including PowerPoint slides and videos. This will be augmented by case studies and facilitated discussions, to engage the participants and to encourage the exchange of ideas.

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:

Aisha Relative - Training & Career Development Manager

aisha@cmc-me.com / training@cmc-me.com

Tel.: +971 2 665 3945 or +971 2 643 6653 | Mob.: +971 52 2954615