



PE027:

Oil & Gas Field Operations:

Gas Processing, Hydrates, Dehydration,
Sweetening, NGL Recovery & Fractionation,
Oil Production, Desalting, Stabilization,
Storage Tanks, Mixers, Meter Proving,
Cargo Calculations & Flow Measurement

Training Description:

This intensive course will provide the participants with an integrated view of the oil and gas production and related facilities during the life of the reservoir. It will present an overview/fundamental understanding of the wide range of oilfield production handling and treatment equipment. With this view and tools and knowledge on the properties and flow of the fluids provided in this course, the participant will be able to understand the behavior of the fluids from the reservoir up to end users.

The training gives strong emphasis of the calculation of reserves, fluids properties from reservoir through gathering network. This knowledge is necessary for the surface facility engineer to design or operate the equipment's and facilities.

Training Objectives:

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

- ✓ Impart participant's fundamental techniques of analytical chemistry
- ✓ Familiarize the participants with global oil & gas related statistics, such as reserves, production, consumption and exports
- ✓ Familiarize the participants with both upstream, middle stream and downstream operations and related facilities
- ✓ Familiarize the participants with various methods and techniques used to explore, drill, produce, treat and transport oil, gas and their products
- ✓ Understand the oil & gas operations of various field facilities from wellhead, flow lines, separators, tanks, pumps and compressors, pipelines, gas treatment and processing, refinery operations, etc.
- ✓ Understand the basic concept with regards to evaluating oil & gas reserves, artificial lift and enhancing recovery
- ✓ Understand the challenge associated with this industry such as offshore operations, horizontal drilling and other safety concerns
- ✓ Get a general feel for petroleum economics and risk analysis

Training Designed for:

This course is intended for all oil & gas production Field Personnel, Operations, Process and Maintenance Supervisors, Technicians, Support Engineers and Engineering Trainees. It would also be of benefit to safety and other support staff who have an interest in increasing their understanding of Oil & Gas Operations.

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
- ❖ Energy Types
- ❖ Global Statistics
- ❖ Oil & Gas Reserves, Production, Export, and Consumption
- ❖ The Need for Oil & Gas
- ❖ The Upstream Operations
- ❖ Origin of Oil & Gas
- ❖ Reservoir types
- ❖ Exploring for Oil & Gas
- ❖ Seismic Technology

DAY TWO:

- ❖ Drilling and Exploration well
- ❖ Directional Drilling
- ❖ Offshore Drilling
- ❖ Well Testing & Completion
- ❖ Well Stimulation & Workover
- ❖ Rock & Fluid Properties

DAY THREE:

- ❖ Oil & Gas Production
- ❖ Artificial Lift Methods
- ❖ Recovery Mechanisms
- ❖ Reservoir Simulation
- ❖ Pressure Maintenance
- ❖ Enhanced Oil Recovery
- ❖ Surface Facilities

DAY FOUR:

- ❖ The Downstream Operations
- ❖ Oil Storage & Transportation
- ❖ Gas Treatment & Processing
- ❖ Refinery Operations & Products
- ❖ Petrochemical Industry

DAY FIVE:

- ❖ The Role of Technology
- ❖ Health, Safety & Environment
- ❖ Corrosion Protection
- ❖ Petroleum Economics
- ❖ 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:

Aisha Relativo - 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