



DE012: Completion and Production Engineering

Training Description:

This intensive training course emphasis the role of the Well, as part of the Integrated Production System for a Hydrocarbon Asset. Well Completion design concepts and the technical selection criteria for the main completion components are reviewed in detail. During the fifth day of the Course, participants are introduced to **Economy concepts** relevant in **Well Interventions** and **major Workovers** (like re-completions).

The training course also highlights the Operating Company's viewpoint in the area of Well Completion and Well Production Management, and group exercises enhance the learning process.

Training Objectives:

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

- ✓ State how Well Completion fits into the E&P Activity
- ✓ Recall and discuss hydrocarbon exploitation considerations for well productivity and completion design
- ✓ Describe the main parameters that influences Well Performance and Productivity
- ✓ Describe the factors that influence the selection and design of the completion string and components
- ✓ Carry out a completion design and explain how it will be run in the well

Training Designed for:

This course is designed for Geo-scientists, Engineers and Managers in Drilling, Well Intervention/Services, Reservoir Engineering, Production Operations, Marketing/Sales etc., whose jobs require them to interface with Completion Engineers, Production Technologists, Well Production Operations Engineers, and Well Maintenance/Servicing Engineers who wish to enhance their current job effectiveness, through more knowledge on Well Completion and Performance, than that attained from their own "core" discipline training and exposure.

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:

- ❖ Overview
- ❖ Well Completions and Performance - Introduction
- ❖ Well Completion Methods
- ❖ Five Reservoir Fluids
- ❖ Driving Mechanisms
- ❖ Inflow Performance Relationship

DAY TWO:

- ❖ Gas Deliverability
- ❖ Gas Deliverability Exercises
- ❖ Multi-phase flow in Pipes
- ❖ Choke Performance
- ❖ Nodal Analysis
- ❖ Introduction to Completions
- ❖ Casing Suspension
- ❖ Tubing Selection

DAY THREE:

- ❖ Tubing Connections
- ❖ Packers
- ❖ Packers Selection
- ❖ Wellheads and X-mas Trees
- ❖ Upper Completion Accessories
- ❖ Safety Valves

DAY FOUR:

- ❖ Gas Well Completions
- ❖ Running Completions
- ❖ Sand Control
- ❖ Multilaterals
- ❖ Sub-Sea Architectures
- ❖ Artificial Lift Methods

DAY FIVE:

- ❖ Tubing Design
- ❖ Tubing Connections (design & manufacturing)
- ❖ Tubing Loads (Exercises)
- ❖ Economics in Well Intervention
- ❖ 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