

**Training Title**

**DRILLING & WELL COMPLETION TECHNOLOGY**

**Training Duration**

5 days

**Training Venue and Dates**

REF DE011	Drilling & Well Completion Technology	5	2-6 January, 2023	\$4,500	Dubai, UAE
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In any of the 5 star hotel. The exact venue will be informed later.

**Training Fees**

- 4,500 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

**Training Certificate**

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

**COURSE DESCRIPTION**

This course is primarily designed for drilling, production and completion engineers and supervisors needing a practical understanding and an appreciation of well completion design and operation, well stimulation and work over planning. It explains how completion configurations are varied to meet well objectives and to maximize well productivity. Design concepts and methods are presented together with downhole tools and their selection criteria.

Completion types and design for vertical, horizontal and multilateral wells, design and optimization of tubing based on tubing performance analysis (Inflow performance analysis, liquid and gas hold up during fluid flow and forces on tubing), downhole equipment, tubing accessories, wellhead equipment including completion. Also fluid flow through perforations and perforation techniques; communication tests; wireline operations; reservoir stimulation; and hydraulic fracture treatment design and optimization are extensively reviewed. Local case studies are also provided.

This course is talking in details about casing, tubing accessorise and completion types. Also completion equipment design , operations and well productivity. To enhance the participants' knowledge, skills, and attitudes necessary to understand well completion technology.

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## **COURSE OBJECTIVES**

By the end of this course, participant will be able to:

- Enhance the participant's knowledge skills to understand the well completion.
- Improve the awareness of types wells completions, operations and subsurface equipment
- Apply the latest techniques in well completion design and operation
- Optimize tubing dimensions for maximum production and estimate the pressure losses in tubing for different rock & fluid properties
- Use different subsurface completion equipments and accessories and select packers and packer settings
- Operate the well head equipments properly and calculate geometries and dimensions casing and tubing hangers
- Identify the different special consideration for horizontal and multilateral completions on wellbore, tubing and casing configuration
- Recognize the components of perforation of oil and gas wells such as completion fishing operations, well stimulation and fracturing, well testing, and well integrity
- Carryout the various procedures of communication tests
- Practice the process of wireline operations
- Discuss the elements of reservoir stimulation and increase the knowledge in understanding of stress and rock properties involved in the simulation techniques

## **WHO SHOULD ATTEND?**

Petroleum engineers, Completion Engineers, drilling and senior drilling supervisors, reservoir and senior reservoir engineers, geologists, production and completion engineers and supervisors Foreman.

## **TRAINING METHODOLOGY**

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. The delegates will also be encouraged to raise their own questions and to share in the development of the right answers using their own analysis and experiences.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work& Practical Exercises
- 20% Videos& General Discussions

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**COURSE OUTLINE:**

 **Casing & tubing introduction**

- Manner of manufacture.
- Type of joints.
- Length range.
- Wall thickness.

 **Well completion type.**

- Open hole.
- Cased hole.
- Slotted liner.
- Single completion & double.

 **Completion equipment and design practices.**

- Well head &
- Safety valves.
- Slide side door and circulation device.
- Permanent and packer.

 **Completion operation.**

- Cementing primary and multistage.
- Remedial
- Cased hole log.
- Depth control.
- Cement bond evaluation.

 **Completion productivity.**

- Sizing the tubing & performance.
- Artificial lift requirement.
- Perforation and selection.
- Completion fluids.

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**NOTE:**

**Pre & Post Tests will be conducted**

**Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.**

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