# Well Completion & Workover

## Table of Contents:




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# Introduction:

**This course** addresses the needs of engineers in both well completion and workover. It will focus on building the current foundation of engineers on completion and workover techniques, but will further provide practical exercises and industrial applications on the key decisions needed to be made during the completion and workover processes.

Moreover, an in-depth discussion on the emerging technologies and methodologies on well completion and workover would be covered.

This includes the techniques such as Smart Well Completion, Multi-lateral Well Completion, HPHT Completions, Sub-sea Completions, and Fiber Optics Completions. The discussion shall go in-depth on the features, benefits, and costs for each type of technique. This course will address how to tackle the common well environments and also the extreme well problems engineers may face during completion and workover processes.

# Objectives

**By the end of this course delegates will be able to:**

- Identify & understand the parameters that influence selection and design of completion components
- Integrate the importance of completion process to future production run
- Deliver techniques to selecting best tubing size and best material for completion

- Gain practical methods in designing, planning, and executing safe and efficient well completion
- Manage well environments with extreme chemical, temperature, and pressure characteristics
- Bridge the importance of well design in relation to the ability to carry out well interventions
- Explore new technological developments in well completions and workovers
- Plan an appropriate intervention and workover strategy to maintain or increase field production

## Who should attend?

Drilling Engineers, Senior Drilling Engineers, Drilling Supervisors, Workover Engineers, Petroleum Engineers, Completion Engineers, Tool Pushers, Reservoir and Senior Reservoir Engineers, Geologists, Production Engineers, Wellsite Engineers, Foremen, Industry Personnel

## Course Outline:

- Introduction to completion design
- Basic completion categories & types
- Completion selection & design criteria
- Reservoir completion

- Tubing performance
- Enhancing production through artificial lift methods
- Production chemistry
- Handling different well environments
- Openhole, uncemented liner & perforated completion

- Multi-zone and subsea completion
- Completion productivity
- Sizing & tubing
- Tubing stress analysis
- Material selection
- Completion components
- Completion operation base preparation
- Matching completion & reservoir performance
- Risks of formation damage
- Sand fill
- Maximizing well productivity

- Rig preparation and completion installation process
- Emerging completion techniques
- Selection & treatment of completion fluids
- Completion equipment & design practices
- Downhole completion accessories
- Workover operation & rig selection

- Acidizing fundamentals
- Fishing & snubbing
- Hydraulic fracturing fundamentals
- Squeeze cementing
- Well intervention methods
- Horizontal tree
- Conventional tree
- Well control
- Integrating completion and workover operations
- Operations cost management
- Handling service providers