



## Rigless Well Intervention

04 - 08 Aug 2024  
Online



# Rigless Well Intervention

**Ref.:** 15284\_291252 **Date:** 04 - 08 Aug 2024 **Location:** Online **Fees:** 2500 **Euro**

## Introduction

A well intervention is any operation performed on an oil or gas well throughout its productive life that affects the well's condition, offers well diagnostics, or regulates the well's output.

In this training course, we are mostly concerned with completion string issues. Production logging and well test procedures can be used to examine and assess reservoir problems. In general, completion string problems may be divided into two categories: those that occur in the tubing bore and can be addressed by tubing operations, and those that demand recovery of the completion string from the well.

This course will provide detailed knowledge on the role of workovers and completion design in increasing field productivity.

## Targeted Groups

- Petroleum Engineers
- Production Technologists
- Production supervisors and engineers
- Completion supervisors and engineers
- Drilling supervisors and engineers
- Workover and well service supervisors

## Course Objectives:

- The varying character of well interventions is introduced.
- Describe the inherent dangers and the importance of thorough diagnoses, planning, and oversight.
- Describe the economic consequences of a workover in terms of preserving well output or injection capacity.
- List and discuss the coiled tubing and hydraulic workover units' equipment and operational ideas.
- Identify, analyze, and recommend completion string functional capacity for a range of contexts. understand the concepts of well-controlled barriers
- Methodology for identifying three impediments during good intervention
- Understand the classification of well control barriers for various types of well intervention methods.
- Explain the mechanisms of a smooth wireline operation.
- List and explain the downhole wireline equipment and tools that are regularly utilized.
- The necessary surface wireline equipment specifications should be listed and explained.
- Explain the well pressure control and wireline safety issues.
- Explain how depth, hole angle, and dog leg severity affect effective wireline operation.
- Learn about wireline, coiled tubing, and workover processes and equipment.

## Course Content

### Unit 1: Fundamental Well Completion Design, Practices, and Strategies

- Design Considerations for Well Completion
- Considerations for Reservoirs
- Considerations for the Mechanical
- Completion Classification
- Lower and higher completion string components, as well as selection criteria

### Unit 2: Containment and Barriers

- Terminology for barriers
- Obstacles and confinement devices
- Envelope barrier
- Testing for barrier integrity
- Flow-controlling devices mechanical barriers
- Killing techniques and principles

### Unit 3: Wire Line Types, Tools, and Applications

- An Overview of Wireline
- Wireline Types
- Fundamental tool strings
- An Overview of Wireline Fishing
- Stuffing container
- The wireline valve bop
- Typical braided line rigging
- Wireline applications and operational issues

### Unit 4: Coiled Tubing Equipment and Applications

- Surface and subsurface components of coiled tubing
- Applications for Coiled Tubing
- CT cleaning operations
- Backflow of a well nitrogen lift

### Unit 5: Well Control Devices and Procedures

- Wireline and Coiled Tubing Pressure Control Equipment
- Wireline and Coiled Tubing Barrier Elements
- All barrier components were subjected to pressure testing.
- Wire line operation emergency wire cut on surface or downhole, tools stuck, etc
- Coiled Tubing Emergency Pin hole in CT surface or downhole, CT stuck, CT crack and etc.



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