



HARNESS THE POWER
OF KNOWLEDGE

Coiled Tubing and its Applications

TRAIN



Course Overview:

Coiled tubing is a continuous spool of tubing that is used for a variety of well intervention operations, including wellbore cleanout, stimulation, and completions

This comprehensive 5-day professional training course will provide a thorough introduction to coiled tubing technology, its applications, and operational procedures

Course Objectives:

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

1

Grasp the fundamental principles of coiled tubing technology and its applications in oil and gas production

2

Identify the different types of coiled tubing systems and their components

3

Understand the design considerations for coiled tubing operations, including coiled tubing selection, fluid selection, and operational parameters

4

Apply coiled tubing techniques to perform various well intervention operations, such as wellbore cleanout, stimulation, and completions

5

Discuss the safety procedures and environmental considerations associated with coiled tubing operations

Course Agenda:

Day 1: Introduction to Coiled Tubing

- Delve into the history and evolution of coiled tubing technology and its impact on the oil and gas industry
- Explore the regulatory framework and safety standards governing coiled tubing operations
- Discuss the environmental considerations associated with coiled tubing activities and mitigation strategies
- Analyze the applications of coiled tubing in various wellbore configurations, reservoir types, and production scenarios

Day 2: Coiled Tubing Systems and Components

- Understand the components of a coiled tubing system, including the coiled tubing reel, injector, control panel, and ancillary equipment
- Discuss the different types of coiled tubing materials, their properties, and their selection criteria
- Analyze the design considerations for coiled tubing strings, including joint design, material selection, and load analysis
- Explore advanced coiled tubing technologies, such as armored coiled tubing, downhole motors, and real-time telemetry systems

Day 3: Coiled Tubing Operations and Procedures

- Delve into the operational procedures for coiled tubing deployment, wellbore cleanout, stimulation, and completions
- Discuss techniques for coiled tubing cleanout, including jetting, milling, and chemical treatments
- Analyze techniques for coiled tubing stimulation, such as matrix acidizing, hydraulic fracturing, and cementing
- Explore advanced coiled tubing operations, such as horizontal well cleanout and fishing operations

Day 4: Coiled Tubing Fluid Selection and Operational Parameters

- Understand the principles of fluid selection for coiled tubing operations, including fluid compatibility, rheology, and environmental considerations
- Discuss the different types of coiled tubing fluids, their properties, and their applications
- Analyze techniques for fluid circulation and pressure management during coiled tubing operations
- Explore advanced coiled tubing fluid systems, such as live fluids, foam fluids, and viscoelastic fluids

Day 5: Coiled Tubing Safety Procedures and Environmental Considerations

- Delve into the safety procedures for coiled tubing operations, including hazard identification, risk mitigation, and emergency response protocols
- Discuss environmental considerations associated with coiled tubing activities and strategies for minimizing environmental impact
- Explore regulatory compliance requirements for coiled tubing operations and the importance of documentation
- Analyze case studies of successful coiled tubing operations, highlighting design considerations, operational challenges, and lessons learned

Who Should Attend:

- Petroleum engineers, reservoir engineers, and completions engineers interested in learning about coiled tubing technology and its applications
- Production engineers and field supervisors involved in well intervention planning, coiled tubing operations, and wellbore remediation
- Coiled tubing equipment manufacturers and service company personnel engaged in coiled tubing design, implementation, and maintenance

Course Benefits:

- Develop a comprehensive understanding of coiled tubing technology, its components, and its applications in well intervention operations
- Gain hands-on experience in coiled tubing operations through case studies and real-world scenarios
- Enhance your ability to design, plan, and execute coiled tubing interventions effectively
- Stay updated on the latest advancements in coiled tubing technology and operational methodologies
- Network with other professionals from diverse backgrounds within the oil and gas industry