

Training Title

WELL INTERVENTION & COILED TUBING

Training Duration

5 days

Training Venue and Dates

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| DE250 | WELL INTERVENTION & COILED TUBING | 5 | 27 – 31 October, 2019 | \$5,500 | Istanbul, Turkey |
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In any of the 5 star hotels. The exact venue will be informed once finalized.

Training Fees

- **5,500 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.

TRAINING DESCRIPTION

This course covers the coiled tubing applications. Economics and improvements in tools and technology have greatly increased the sphere of coiled tubing applications. Coiled tubing is the completion and remedial work string of necessity in many wells, especially for offshore, horizontal, and multilateral wells. But coiled tubing is not a panacea; there are many limitations, some obvious, some not. The questions most operators ask about this advancing technology are:

What can be done with coiled tubing today that could not be done a few years ago?

When should coiled tubing be used?

When should coiled tubing not be used?

This course is packed with the kind of information needed to answer those questions and to intelligently plan and carry out successful coiled tubing operations for specific applications. The course covers fundamental characteristics and properties of coiled tubing and how they affect well operations.

Most of the course is devoted to the all-important practical applications in completions and production operations including case histories. This objective and practical course is presented with operating personnel in mind so that they are equipped to decide when, how, and whether or not to employ coiled tubing technology.

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TRAINING OBJECTIVES

Upon the successful completion of this course, participants will be able to:-

- Describe the fundamentals of coiled tubing and specify related equipment
- Determine the parameters of coiled tubing failure and how to minimize failures
- Plan safe and effective coiled tubing operations
- Specify coiled tubing procedures and equipment for production applications
- Specify coiled tubing procedures and equipment for completion applications
- Analyze case histories of coiled tubing successes and failures
- Well intervention operations and trouble shooting

WHO SHOULD ATTEND?

New recruits' engineers who are following Reservoir Engineering Development framework

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. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

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

DAILY OUTLINE

DAY 1

1. Coil Tubing Unit Components & Function

- Injection head
- Coiled Tubing Reel
- Power pack/Control Cabin
- Strippers
- Tandem Stripers
- Quad Blowout Preventer
- Combi and Shear/Seal BOP
- Jacking Frame
- The Coiled Tubing Unit

2. Coiled Pipe Specification

- Coiled Tubing Background

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- Strip Bias Welding
- Taper Design
- Coiled Tubing Materials
- large-Diameter Coiled Tubing
- Internal Flash Free
- In-Line Wireline
- External Coatings
- Production String Application
- Velocity Strings
- Electrical Applications
- Subsea Flow lines
- Coiled Tubing Specifications

DAY 2

3. Working with Coil Tubing

- Standardized Procedures
- Coiled Tubing Tubing Unit Rig-Up Procedures
- Coiled Tubing BOP testing and Rig-Up
- Pre-Job Procedures
- Post-Job procedures
- Control Consoles
- Hydraulic Pressure Setting for coiled Tubing Power Packs
- Accumulators
- Use of Tools on Coiled Tubing
- Tripping Pipe
- Tubing Records
- Calculations of Displacement and Capacity
- Coiled Tubing failures and Pin Holes
- Field Welding and Repair of Coiled Tubing
- Stuck Coiled Tubing
- Runaway Hang Off's
- Purging of Hazardous Material
- Personal of Hazardous Equipment
- Safety Equipment on Unit
- Personal Protective safety Equipment Requirement
- Safety Procedures for H2S
- Emergency Shutdown, BOP Drills, BOP Pressure tests and Actuation
- Coiled Tubing Operations at Night
- Several Weather/Wind/Lightning
- Operating in Extreme Temperatures
- Communications Systems
- Pumps, tank and Gas Busters, Return Lines and Chokes

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- Use of Grains for Coiled Tubing Operations
- Elastomeric Selection for Coiled Tubing
- rental Equipment
- Nitrogen Safety and Rig-Up
- Job Site Procedures
- Working Above ground

DAY 3

4. CTU Heavy Duty Tool String

- SPE Cooperation and Utilization
- Coiled Tubing Service Tools
- Hydraulic jars
- Knuckle Joints
- Accelerators
- Inflatable Packer
- Tubing Connectors F/Service Tools
- Tubing Connectors F/Completions
- Hydraulic Disconnect Tool
- Back Pressure Valve

5. CTU Packer Application

- Why Run A Packer?
- Inflatable packer
- Technical Information
- Coiled Tubing Products
- Recommended Procedures
- Inflatable Packers
- Thru-Tubing Fishing Services

6. Wellbore Cleanout

- Sand Washing with Coiled Tubing
- Sand Washing with Water
- Sand Washing with Nitrified water
- Sand Washing with foam
- Example of sand Washing Procedure
- Cleaning Out With a Down hole Motor
- Jetting with Coiled Tubing
- Jetting for Production
- Reduction of Hydrostatic Head for perforating
- Back flushing Disposal and Injection Wells
- Jetting for Zone Evaluation
- Paraffin and Salt Removal Using Coiled Tubing
- Paraffin removal Using Coiled Tubing and Hot Oil

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- Paraffin and Salt removal Using Coiled Tubing and Hot water
- Paraffin removal using Coiled Tubing and Chemicals Asphaltenes
- Asphaltene removal

DAY 4

7. Formation Stimulation

- Introduction
- Chemical Stimulation
- Completion Types
- Acids
- General Acid Treatment Schedule
- General Acid Placement Technique
- Specialty Stimulation

8. Cementing

- Cement Design Specifications
- Cement Techniques

9. CTU Drilling

- Milling-Drilling-and Fishing
- Rotational Drilling with Coiled Tubing
- Jet Drilling with Coiled Tubing
- Otis Jet Drill Head

10. CTU Electric Line Services

(Conveyed Services)

- Introduction
- Wireline Equipped Coiled Tubing Logging and Performing Services
- Coiled Tubing Logging and Performing

DAY 5

11. Well intervention

- Snubbing unit
- Types of snubbing unit
- Snubbing unit operations
- Pulling unit
- Pull unit application and operations
- Practical exercises

12. Wire line operations

- Wire line components
- Wire line function

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- Wire line operations
- Wire line fishing operations
- Wire line troubleshooting
- Work over
- Work over Rig and Rig less operations

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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