

Coiled Tubing Operations



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Introduction:

Coiled Tubing is the process of running a reel of continuous tubing into a well that is still under pressure. Coiled Tubing equipment is portable and modular although modern reels are reaching high transport weights and offers quick rig-up times. The maximum working depth of Coiled Tubing is usually determined by the amount of tubing that can be spooled onto a reel rather than the TVD. Highly deviated wells can cause problems with Coiled Tubing as, like wireline, gravity is required to keep the tubing moving down the well-bore. This can now be overcome to a certain extent with the use of downhole “tractors” which pull the coiled tubing from the bottom. Coiled Tubing can be used for a very wide range of jobs such as, Nitrogen lifting wells, Clean-up operations, Spotting acid at the perforations, fishing operations, Spotting cement and PLT.

Highlights:

This BTS training course will highlight:

- Coiled Tubing Equipment
- Well Control Equipment
- Coiled Tubing application
- Job design
- Acidizing and stimulation techniques

Objectives:

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

- Manage and execute Coiled Tubing interventions

- Increase overall operational performance during Coiled Tubing interventions
- Select the most commonly used downhole tools and explain their function
- Work safely with liquid nitrogen

Organisational Impact

Organization will gain (direct and indirect) the following:

- Employees who receive training have increased confidence and motivations;
- Lower cost of production –eliminates risks because trained personnel are able to make better
- Lower turnover –brings a sense of security at the workplace which in turn reduces labor turnover
- Change management –involvement of employees in the change process

Personal Impact

Personnel will gain the following:

- Manage and execute Coiled Tubing interventions
- Increase overall operational performance during Coiled Tubing interventions
- Select the most commonly used downhole tools and explain their function
- Work safely with liquid nitrogen

Who should attend?

This **BTS** training course is designed for those involved in the production optimization and well intervention operations:

- Production Technologists
- Production Engineers

- Operations Engineers
- Field Technicians
- Reservoir Engineers

Training Methods:

This **BTS** wire line operations and techniques training course will be presented using properly designed slides, some and animation on relevant issues. A printed manual containing all the slides and/or electronic form in PDF will be delivered to each attendant. Teaching methods include also pre and post evaluation test on related issues.

Course Agenda:

Day One: Coiled Tubing Equipment

- Coiled Tubing Services
- Coiled Tubing Equipment
- Surface CT Equipment
- Downhole Equipment

Day Two: Well Control Equipment

- Barrier theory
- Primary, secondary and tertiary barriers
- BOP types
- Strippers
- Riser and flange connections

Day Three: Coiled Tubing Application

- CT String and Pipe Management

- Data Acquisition
- Depth Control
- CT Applications
- Matrix Stimulation with CT
- CT Logging
- Nitrogen

Day Four: Job Design

- Introduction to Job Design
- Safety and Operational Standards
- Job Design - Risk Analysis
- Downhole Tools

Day Five: Acidizing and Stimulation Techniques

- Damage mechanisms
- Chemistry of carbonate acidizing
- Acid treatment design in carbonate
- Fluid selection for carbonate acidizing
- Chemistry of sandstone acidizing
- Acid treatment design in sandstone
- Fluids selection for sandstone acidizing
- Additives used in acidizing and their functions
- Case studies