



Coiled Tubing Interventions - CTI

COURSE

About the Course

Coiled Tubing is one of the most common technologies used for well interventions on a daily basis throughout the oil industry during drilling, completion, and mainly production phases of oil and gas wells around the world.

This course covers the surface and pressure control equipment, the bottomhole assembly components (downhole tools), the string manufacturing and operational limits, the interventions performed with coiled tubing (20+ different pumping and mechanical interventions including coiled tubing drill out and coiled tubing drilling), and how to deal with fatigue and corrosion. Nitrogen equipment and calculations required for constant / variable temperature and commingled nitrogen interventions are also covered.

The final part presents an extensive coverage of emergency responses and contingencies to deal with in a wide variety of scenarios. A generous amount of time is spent in practical exercises, and technical concepts are enhanced with pictures, videos and numerous real field cases and problems. Participants will gain the knowledge to actively and efficiently participate in coiled tubing intervention's planning, design and/or execution.

Target Audience

Well interventions or well services supervisors, operations or field Engineers, coiled tubing supervisors and operators, sub-surface engineers, production engineers, drilling engineers, completion engineers, and those professionals willing to expand their knowledge in coiled tubing and nitrogen interventions planning, design and/or execution.

You Will Learn

Participants will learn how to:

- Plan, design, manage and execute coiled tubing interventions from the most common, such as chemical treatments and nitrogen lifting, to the most complex types, like Coiled Tubing Drill Out, Coiled Tubing Drilling, and ESP applications
- Improve the overall operational performance during coiled tubing interventions
- Select or recommend coiled tubing equipment for given field conditions and applications
- Select the proper pressure control equipment for any particular well condition
- Calculate the appropriate size of accumulators for a coiled tubing unit
- Select the most commonly used downhole tools and explain their function

- Calculate and define coiled tubing string limits
- Recognize, prevent and manage corrosive and sour conditions and their impact
- Work safely with liquid nitrogen
- Calculate nitrogen volumes required for different applications
- Take appropriate actions during emergency responses and contingencies

Course Content

- Introduction
- Surface equipment
- Pressure control equipment
- Bottomhole assembly components
- Coiled tubing strings
- Operational limits
- Pumping operations
- Mechanical operations
- Coiled tubing drilling operations
- Life estimation (fatigue)
- Corrosion
- String management
- Checklists
- Nitrogen
- Emergency responses and contingencies

Product Details

Categories: [Upstream](#)

Disciplines: [Production and Completions Engineering](#)

Levels: [Foundation](#)

Product Type: [Course](#)

Formats Available: [In-Classroom](#) [Virtual](#)

Instructors: [PetroSkills Specialist](#) [Diego Londono](#)