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COURSE BROCHURE

Coiled Tubing Well Intervention Operations Training Course

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Registered in the United Kingdom and Saudi Arabia

Coiled Tubing Well Intervention Operations Training Course

Coiled Tubing Well Intervention Operations is a 1-week training course for well intervention engineers and coiled tubing supervisors, built around a Coiled Tubing Job Design Pack that each participant completes for a live well. Operators now ask more from every intervention run, with deeper wells, longer laterals and tighter rig-less budgets, so job design decides whether a well returns to production safely. Coiled tubing well intervention operations training is delivered by Jupiter Prime Training.

Why Coiled Tubing Well Intervention Operations Matters Now

Three forces shape coiled tubing work today: longer horizontal sections that push reach limits, mature fields that need frequent cleanouts and lift, and a smaller pool of experienced supervisors at the wellsite. Handled well, a run restores flow without a workover rig and keeps the barrier envelope intact; handled badly, it brings stuck pipe, a buckled string and lost production days at the asset. The course rests on recognised industry practice for well barriers, string fatigue tracking and pre-job risk assessment.

Who Gains Most from Coiled Tubing Well Intervention Operations

- Engineers who design jobs and run force and hydraulic simulations
- Wellsite supervisors who lead the coiled tubing crew and own the pressure control rig-up
- Production engineers who nominate wells for cleanout, lift or stimulation
- Coordinators who plan unit, pump and nitrogen equipment
- Well integrity specialists who approve barrier diagrams and pressure test criteria

Asset teams gain most when intervention engineers and service supervisors attend together.

Coiled Tubing Well Intervention Operations Capabilities

Participants move from reading a well schematic to defending an intervention design to the crew.

- Specify the coiled tubing unit, injector head and string for a given well profile — equipment nomination
- Design the pressure control stack and its test sequence — barrier approval by well integrity
- Calculate string fatigue life and set retirement limits — string management and replacement
- Model tubing forces, lockup depth and friction reduction options — go or no-go on reach
- Build cleanout, nitrogen lift, acid placement and milling procedures — job execution by the crew
- Assess stuck pipe and leak contingencies — emergency decisions at the wellsite

Key Coiled Tubing Well Intervention Operations Terms

- Injector head — the hydraulic unit with gripper chains that runs the string into a live well.
- Stripper — the sealing element above the blowout preventer that packs off around the moving tubing to contain well pressure.
- Fatigue life — the share of a string's usable bending cycles already consumed.
- Helical lockup — the depth at which compressive force coils the tubing against the wellbore so it can travel no further.
- Nitrogen kick-off — pumping nitrogen to lighten the fluid column and restart a dead well.
- Annular velocity — the fluid speed between tubing and casing that lifts debris to surface.

Coiled Tubing Well Intervention Operations Day by Day

Day 1: Intervention Context and Unit Equipment

- Rig-Less Intervention Options Compared — When Coiled Tubing Beats Wireline or Workover
- Coiled Tubing Unit Components — Reel, Injector, Power Pack and Control Cabin
- String Metallurgy and Wall Taper — Matching Tubing Grade to Well Loads
- Well Schematic and Completion Restrictions — Tool String Outer Diameter Limits
- Candidate Well Screening — Ranking Wells by Production Gain and Risk

Day 2: Pressure Control and Well Barriers

- Pressure Control Stack Configuration — Stripper, Quad Blowout Preventer and Shear-Seal Rams
- Barrier Envelope Diagrams — Primary and Secondary Barriers During the Run
- Pressure and Function Test Sequence — Acceptance Criteria Before Opening the Well
- Check Valves and Downhole Tool Barriers — Preventing Backflow Through the String
- Well Control Drills and Shut-In Steps — Crew Roles in an Emergency

Day 3: String Mechanics and Job Design

- Fatigue Tracking Software and Cycle Logs — Retirement and Cut-Back Decisions
- Tubing Force Modelling — Predicting Lockup and Weight on Bit
- Friction Reducers and Extended Reach Tools — Extending Lateral Coverage
- Hydraulics Modelling — Pump Rate, Pressure Limits and Annular Velocity
- Bottom-Hole Assembly Selection — Motors, Jars, Nozzles and Disconnects

Day 4: Cleanouts, Lift, Stimulation and Milling

- Sand and Scale Cleanout Procedures — Sweep Volumes and Wiper Trips
- Nitrogen Lifting Design — Kick-Off Depth and Gas Volume Planning
- Acid Stimulation Placement — Spotting Fluids Across the Target Interval
- Milling Plugs and Obstructions — Motor Torque and Cuttings Transport
- Stuck Pipe and Leak Contingencies — Pull Limits and Emergency Cutting

Day 5: Practising the Coiled Tubing Job Design Pack

- Applying Candidate Screening to a Case Well — Selecting the Intervention Scope
- Applying Barrier Diagrams to the Case Rig-Up — Test Plan Sign-Off
- Applying Force and Hydraulics Models — Confirming Reach and Pump Schedule
- Job Risk Assessment and Toolbox Briefing — Hazards, Controls and Stop-Work Triggers
- Completing the Coiled Tubing Job Design Pack — Peer Challenge and Final Revision

Applying Coiled Tubing Well Intervention Operations After the Course

- Run a fatigue and force model check on the next cleanout and share the lockup margin.
- Lead a barrier envelope review of the current pressure control rig-up and update its test acceptance criteria.

Coiled Tubing Well Intervention Operations Questions FAQ

What is coiled tubing well intervention operations and why does it matter now?

It is the practice of servicing live wells with a continuous steel string run from a reel. Longer laterals and mature fields mean more such jobs, so sound design protects production and people.

Which roles gain most from coiled tubing well intervention operations training?

Intervention engineers and wellsite supervisors gain most, with production engineers and well integrity specialists who nominate wells or approve barriers.

How does a coiled tubing well intervention operations course differ from a wireline or well control course?

It focuses on the continuous string: its fatigue, forces, hydraulics and pumping jobs. Wireline courses cover slickline tools, and well control courses cover drilling kicks.

What do you bring back from coiled tubing well intervention operations training?

You bring back a completed job design for a case well, covering equipment, barrier diagram, force and hydraulics checks, procedures and contingencies.

Coiled Tubing Well Intervention Operations: The Way Forward

The Coiled Tubing Job Design Pack first informs whether a nominated well can be reached and cleaned with the planned string and pump schedule. Intervention engineers use it to brief the service crew, and supervisors use it as the wellsite reference. After its first use, revisit the fatigue margins and friction assumptions against the actual weight readings recorded during the run.