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COURSE BROCHURE

# Single Well Drilling to Completion Sequence Training Course

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**jupiterprime.uk**

info@jupiterprime.uk

Registered in the United Kingdom and Saudi Arabia

# Single Well Drilling to Completion Sequence Training Course

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Single well drilling to completion sequence is a 1-week training course for drilling, completion and petroleum engineers who must turn one well design into an ordered set of rig operations, ending in a drilling and completion sequence outline for one well. Rig time is the largest well construction cost, and a clear sequence protects it. Jupiter Prime Training delivers this single well drilling to completion sequence course.

## Why Single Well Drilling to Completion Sequence Matters Now

Three pressures shape how a single well is sequenced today. Operators drill fewer, longer and more complex wells, so every hole section carries more risk and more rig days. Drilling and completion teams increasingly sit in separate contracts, which makes the handover between them a frequent source of lost time. A properly sequenced well avoids repeated trips, stuck casing and remedial cement jobs; a poorly sequenced one burns budget and can weaken well barriers for the life of the field, long after the rig has left.

## Who Gains Most from Single Well Drilling to Completion Sequence

- Engineers who set casing points, mud weights and bit runs
- Engineers who select and order lower and upper completion equipment
- Engineers who plan cement slurries and placement
- Petroleum engineers who define inflow and perforation needs
- Engineers who prepare the well for handover to production operations

Joint well delivery groups gain most when their drilling, completion and production engineers attend together.

## Single Well Drilling to Completion Sequence Capabilities

Participants link each rig operation to the one before and after it, in an order the rig, casing and completion can support.

- Specify rig capacity against hook load and casing weights — rig selection
- Select bits and fluids per hole section — section drilling plan
- Design casing depths and cement placement — barrier integrity
- Build the lower and upper completion running order — completion engineer and rig supervisor
- Weigh perforating timing against well control — petroleum engineer
- Communicate handover conditions and barrier status — production operations

## Key Single Well Drilling to Completion Sequence Terms

- Casing setting depth — the depth where a casing string is landed, chosen from pore pressure and fracture gradient.
- Kick tolerance — the largest influx volume a hole section can take and still be shut in without fracturing the weakest formation.
- Lower completion — equipment across the producing zone, such as screens, liners and packers.
- Upper completion — the tubing, safety valve, gauges and hanger that carry fluids from the lower completion to surface.
- Underbalanced perforating — firing perforating guns with well pressure below reservoir pressure so the tunnels clean up immediately.
- Well handover — the formal transfer of a completed well, its barriers and records to production.

## Single Well Drilling to Completion Sequence Day by Day

### Day 1: Rig Systems and the Well Sequence

- Hoisting, Rotating and Circulating Systems — Matching Rig Capacity to Well Loads
- Pressure Control Equipment Stack-Up — Barrier Arrangement for Each Hole Section
- Pore Pressure and Fracture Gradient Plot — The Safe Mud Window
- Well Schematic and Operation Breakdown — Ordering Sections From Spud to Total Depth
- Time and Depth Curve — The Rig Day Baseline

### Day 2: Bits and Drilling Fluids

- Roller Cone and Fixed Cutter Bit Selection — Matching Cutters to Formation Hardness
- Hydraulics and Hole Cleaning Calculations — Flow Rate and Nozzle Choices
- Water-Based and Oil-Based Mud Systems — Fluid Choice per Hole Section
- Mud Weight and Rheology Control — Wellbore Stability and Equivalent Density
- Bottom Hole Assembly Design — Directional Control and Vibration Risk

### Day 3: Casing and Cementing

- Casing Design Load Cases — Burst, Collapse and Tension Margins
- Kick Tolerance Assessment — Confirming Each Casing Point
- Cement Slurry and Spacer Design — Zonal Isolation Behind Each String
- Centraliser Placement and Displacement Rates — Mud Removal and Cement Coverage
- Cement Evaluation Logs and Pressure Tests — Accepting the Barrier Before Drilling Ahead

### Day 4: Completion Equipment and Perforating

- Lower Completion Options: Cased Hole, Liner and Screens — Sand Control and Inflow
- Upper Completion String Design — Tubing Size, Safety Valve and Gauges
- Packer and Hanger Setting Sequence — Isolation and Load Transfer
- Perforating Gun Systems and Conveyance — Balance Condition and Shot Density
- Completion Fluids and Displacement — Formation Protection Before Production

## Day 5: Practising the Drilling and Completion Sequence Outline

- Section-by-Section Rig Operation Order — Linking Bits, Fluids and Casing Runs
- Drilling to Completion Interface Checklist — Wellbore Clean-Out and Equipment Readiness
- Barrier Status Diagram at Each Stage — Integrity Through Completion Running
- Well Handover Dossier — Records, Test Results and Open Actions for Production
- Drilling and Completion Sequence Outline — Finalising One Well From Spud to Handover

## Applying Single Well Drilling to Completion Sequence After the Course

- Lead a sequence review of the next planned well, checking casing points and completion running order against rig capacity.
- Run a handover meeting between drilling and production engineers using a barrier status diagram.

## Single Well Drilling to Completion Sequence Questions FAQ

### What is single well drilling to completion sequence and why does it matter now?

It is the ordered plan of rig operations that takes one well from spud to a completed, handed-over producer. It matters now because wells are longer and costlier, and split contracts leave gaps that waste rig days.

### Which roles gain most from single well drilling to completion sequence?

Drilling, completion and petroleum engineers gain most. You benefit if your casing, completion or perforating plans must fit one order on the rig.

### How does single well drilling to completion sequence differ from a basic drilling technology course?

It carries the well past total depth into completion and handover. A basic drilling course explains rig equipment for a general audience; this one joins drilling, casing, completion and perforating into one engineer-level sequence.

### What do you bring back from single well drilling to completion sequence?

You bring back a sequence outline for one well. It lists each section, cement job, completion run and perforating step in order, with barrier status and handover records.

## Single Well Drilling to Completion Sequence: The Way Forward

The drilling and completion sequence outline first informs the rig schedule and long-lead equipment orders. Drilling supervisors, completion engineers and production operators all work from the same outline, so each sees what the others need. After its first use, the team should revisit the interface between the last casing string and the completion run.