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COURSE BROCHURE

Well Drilling Essentials for Non-Drilling Professionals Training Course

12 – 16 September 2027
Cairo

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Ref: 2099_77331 **Date:** 12 – 16 September 2027 **Location:** Cairo **Fees:** 4000 GBP

Well Drilling Essentials for Non-Drilling Professionals is a 1-week training course for geoscientists, finance analysts, buyers and support specialists who need to follow how a well moves from target to production, and who leave with a Well Delivery Briefing Pack for their own function. Operators now expect every discipline around the rig to read drilling choices quickly and question them sensibly. Jupiter Prime Training frames well drilling essentials in plain language without calculations.

Why Well Drilling Essentials Matters Now

Three forces shape how non-drilling staff meet the rig today. Well costs are scrutinised line by line, so finance and buyers must challenge rig rates, service tickets and contingency with confidence. Narrower targets mean geoscientists and drillers negotiate casing points more often. An organisation that handles this well avoids surprise overruns and stalled approvals; one that handles it badly loses rig days to misunderstood requests. The course rests on the well life cycle model and the two-barrier principle, explained in plain terms.

Who Gains Most from Well Drilling Essentials

- Subsurface specialists who set targets, pore pressure expectations and formation tops for the well plan
- Cost controllers and analysts who build authorisations for expenditure and track spend against them
- Contracts and purchasing staff who tender rigs, tubulars and well services
- Logistics, materials and base staff who move casing, mud and equipment to the wellsite
- HSE, legal and administrative staff who support well approvals and contractor oversight

An asset team that sends a geoscientist, a cost controller and a buyer together gains most.

Well Drilling Essentials Capabilities

Participants turn rig-floor vocabulary into choices they can test in their own function.

- Explain the stages from well concept to completion handover — subsurface and asset leadership
- Compare land rigs, jack-ups, semi-submersibles and drillships by fit — rig selection discussions
- Read a casing scheme and mud plan at a high level — formation top and target agreements
- Identify the main drivers of a well cost estimate — expenditure approvals and variance reviews
- Specify clearer requests for tubulars, rentals and services — tender and call-off decisions
- Communicate with drilling supervisors using shared terms — daily operations and escalation

Key Well Drilling Essentials Terms

- Casing point — the planned depth where drilling stops so steel pipe can be run and cemented to protect the hole.
- Mud weight — the density of drilling fluid, chosen to hold back formation pressure without fracturing the rock.
- Bottom hole assembly — the heavy lower section of the drill string, carrying the bit, collars and steering tools.
- Non-productive time — rig hours lost to failures, waiting or unplanned events, a major source of cost growth.
- Authorisation for expenditure — the approved budget document for a well, listing estimated costs by phase and service.
- Completion — the equipment installed after drilling that lets hydrocarbons flow safely from the reservoir to surface.

Well Drilling Essentials Day by Day

Day 1: The Well Life Cycle and Its People

- Well Life Cycle Model — Where Each Function Enters the Process
- Exploration, Appraisal and Development Wells — Purpose Behind Each Well Type
- Operator, Drilling Contractor and Service Company Roles — Who Decides What
- Rig Crew Hierarchy and Shift Pattern — Knowing Whom to Contact
- Drilling Terminology Glossary — Reading Morning Reports Without Confusion

Day 2: Rigs, Equipment and the Drilling Process

- Land Rigs, Jack-Ups, Semi-Submersibles and Drillships — Matching Rig to Setting
- Hoisting, Rotating and Circulating Systems — How the Hole Gets Deeper
- Drill Bits and Bottom Hole Assemblies — Why Tool Choices Change Pace
- Drilling Fluid Functions and Mud Weight — Balancing Pressure and Hole Stability
- Vertical, Directional and Horizontal Wells — Reaching Targets the Geology Sets

Day 3: Casing, Cementing, Control and Completion

- Casing Scheme and Setting Depths — Protecting Shallow Zones and Weak Formations
- Primary Cementing Purpose — Isolating Zones Behind the Steel Pipe
- Two-Barrier Principle and Blowout Preventer — Keeping Pressure Under Control
- Formation Evaluation While Drilling — Logs and Cores Geoscientists Request
- Completion Types and Handover — Moving From Drilled Hole to Producer

Day 4: Cost Drivers and Commercial Choices

- Well Cost Estimate Structure — Time-Dependent Versus Fixed Cost Lines
- Rig Day Rate and Spread Rate — Why Every Rig Day Counts
- Non-Productive Time and Invisible Lost Time — Sources of Budget Overrun
- Long-Lead Tubulars and Service Contracts — Timing Purchases to the Spud Date
- Authorisation for Expenditure and Cost Tracking — Approving and Monitoring Well Budgets

Day 5: Practising the Well Delivery Briefing Pack

- Drilling Plan Walk-Through — Applying Day 1 to Day 3 Vocabulary
- Rig and Casing Choice Case Study — Linking Equipment to Subsurface Targets
- Cost Estimate Challenge Exercise — Questioning Lines in a Sample Estimate
- Interface Map With Drilling Teams — Agreeing Requests, Timings and Escalation Routes
- Well Delivery Briefing Pack — Finalising a Function-Specific Reference for Colleagues

Applying Well Drilling Essentials After the Course

- Run a one-hour session walking colleagues through the next drilling plan using the casing scheme and cost structure taught
- Review an open authorisation for expenditure with the drilling engineer, flagging time-dependent lines and non-productive time exposure

Well Drilling Essentials Questions FAQ

What is well drilling essentials for non-drilling professionals and why does it matter now?

It is a plain-terms view of how wells are planned, drilled, cased and completed. It matters now because tighter budgets and narrower targets demand that every discipline around the rig reads drilling choices and challenges them sensibly.

Which roles gain most from well drilling essentials training?

Geoscientists, cost controllers, buyers, logistics staff and support specialists gain most. Each works beside drilling teams daily yet rarely sees the reasoning behind rig and casing choices.

How does well drilling essentials differ from a drilling engineering course?

It explains concepts and trade-offs without calculations. An engineering course teaches design; this one helps you question designs and support the work.

What do you bring back from well drilling essentials training?

You bring back a reference pack written for your own function. It sets out the well stages, rig and casing basics and the main cost lines.

Well Drilling Essentials: The Way Forward

The Well Delivery Briefing Pack first informs how a function reviews its next drilling plan or expenditure approval. Geoscientists, cost controllers and buyers use it to frame requests and challenges in drilling terms. After its first use, revisit the interface map with the drilling supervisor and adjust lead times to what happened on the rig.