
N600: Well Planning and Execution

Instructor(s): Christine Telford

Format and Duration

Classroom - 5 Days

Summary

The course details the planning and execution of a well from an operational geoscience viewpoint giving a broad understanding of what geological operations entails including practical exercises and role play. For most methods of energy generation, environmental work and waste disposal the drilling of, or repurposing of existing wellbores, is usually required. Few professionals in the industry gain real practical experience and even if they don't work in operations, it's critical that they have an understanding of the practical role of operations geoscientists.

Learning Outcomes

Participants will learn to:

1. Understand and apply the practices and procedures of planning and executing wells.
2. Recognise the input from a range of disciplines into the well planning and execution process and how this can impact on operations geoscience.
3. Develop written and verbal communication strategies for successfully managing integrated teams of varying disciplines.

Training Method

A classroom course comprising lectures and practical exercises.

Who Should Attend

All geoscientists, specialists and engineers who are involved in well planning and execution.

Course Content

Session 1

- Understanding the role of the operational geoscientist
- Target identification, definition and selection
- Preliminary well design
- Hazard and risk identification and mitigation
- Basic well construction
- Well option selection

Sessions 2 and 3

- Detailed well design
- PPFG, define casing points and mud weights
- Geomechanics

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- Formation Evaluation planning
- Operational decision trees
- Regulatory compliance
- Partner engagement
- Subcontractor engagement
- Documentation and reporting
- Day 3 - Real time exercise; Drilling the 12 1/4" section and calling section TD at the 9 5/8" casing point

Session 4

- Well execution
- Drilling operations
- 24-hour monitoring and real time decision making
- Communications with simulation exercises
- Formation Evaluation data
- Geosteering
- Day 4 - Real time exercise; Drilling the 8 1/2" horizontal reservoir section to final TD

Session 5

- Learning
- Measurement of performance against objectives
- Recording subsurface understanding and geological related drilling lessons learned