Introduction to Drilling

Designed for:

All those involved in well related activities, specifically petroleum engineers and geoscientists who contribute to well proposals or those who may need a deeper understanding of well design and construction to make more informed decisions in their work.



Learning Level:
Skills
Knowledge
Awareness

Introduction to Drilling is a course designed to impart a comprehensive understanding of how and why wells are constructed the way they are.



The course considers the issues around both drilling to the reservoir safely and efficiently, and drilling through the reservoir where the emphasis is on maximising well productivity.

The course uses a standard drilling programme as a 'red-thread' on which to hang detailed discussions about site preparation, drilling operations, casing design, mud and cement selection, and data collection. All the subjects are supported and reinforced by numerical examples.

The course contains a mixture of formal teaching, individual and group exercises, videos, posters and (customs allowing) a number of exhibits.

Informal discussions of local issues will be covered.



Introduction to Drilling continued

Course Content:

The course covers all aspects of well construction operations including:

Overview of well types and drilling programmes

- Exploration, appraisal and development wells
- Typical programmes and information requirements

Drilling sites

- Site selection and preparation
- Site management and life of field considerations
- · Spudding a well

Drilling 'to' the Reservoir

- · Well path design and deviation surveys
- Bit type and BHA design
- · Drilling fluids selection and management
- · Casing selection and design
- · Cementing operations
- · Leak off testing

Course Duration:

Duration is 5 days.

Courses available from this series:

Drilling Awareness
Introduction to Drilling
Well Productivity Awareness School (WASP)
Completion Design
Completion Practices
Well Management
Tubing Stress Analysis
Artificial Lift
HPHT Drilling
Integrated Well Planning & Drilling Operations
Operations Geology
Maximising Well Productivity in a Low Oil Price
World
Stuck Pipe Prevention

Drilling 'through' the Reservoir

- Well productivity prediction and estimation
- Formation damage causes and prevention
- · Data acquisition management
- Pre-completion design and installation
- Completion selection and design

Measuring the success of Drilling operations

- Well integrity assessment
- Well productivity measurement

Course Tutor



Angelique Robb BSc
Main Series tutoring: Wells
Industry experience: over 16 years, petroleum
engineering
Career background: BP, Shell, Britannia, Marathon Oil,
Chevron,

Oilexco, Leap Energy and AGR

Personal: Black belt in Business Improvement

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Well Integrity Management