

## Drilling Awareness

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### Designed for:

Non drilling and entry level drilling personnel who require an understanding of well design, construction and completion as interaction with the drilling community is a significant part of their work.

### Duration (days)

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### Learning Level:

Skills ■ ■ ■  
Knowledge ■ ■ ■  
Awareness ■ ■ ■

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



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

Drilling rigs, tools and techniques are covered, along with the creation of the interface with the reservoir through perforating and fracing, and completion equipment including artificial lift.

The course contains a multi-media mixture of formal teaching, exercises and videos, with the course materials comprising printed slidepack and drilling manual.

## Drilling Awareness continued

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### Course Content:

The course covers all aspects of well construction operations including:

#### Well types and drilling rigs

- Rock geoscience including seismic
- Exploration, appraisal and development wells
- Types of drilling rigs and rig components

#### Drilling Process

- Well path design and deviation surveys
- Bit type and BHA design
- Drilling fluids selection and management
- Casing selection and design
- Cementing operations
- Formation evaluation
- Onshore and offshore operations
- Unscheduled events and blowout prevention

#### Well Completion

- Completion components
- Perforating and fracing
- Artificial lift
- Sand Control

### Course Duration:

Duration is 2 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  
Well Integrity Management

### Course Tutors



**Roger McIlroy** BSc, MEng, CEng, MEI

**Main Series tutoring:** Wells and Reservoir

**Industry experience:** over 40 years, subsurface leadership production technology and reservoir engineering

**Career background:** Maersk, BP, Shell, AGR and TRACS

**Personal:** Chartered Petroleum Engineer, Member of Energy Institute, Member SPE



**Donald McMillan Sharples** MEng, BSc (Hons)

**Main Series tutoring:** Reservoir and Wells

**Industry experience:** over 30 years, petroleum engineering

**Career background:** Anadrill, Marathon Oil Co, Gaffney, Cline & Associates, LASMO PLC, Talisman North Sea Ltd, Oilexco North Sea, Composite (Dart) Energy and AGR

**Personal:** Technical author, Member of the Society of Petroleum Engineers



**Angelique Robb** BSc

**Main Series tutoring:** Wells

**Industry experience:** 20 years, petroleum engineering

**Career background:** BP, Shell, Britannia, Marathon Oil, Chevron, Oilexco, Leap Energy, AGR and TRACS

**Personal:** Black belt in Business Improvement