



IWCF Well Control Program

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Training & Consultancy



1st floor, Incubator Building, Masdar
City, Abu Dhabi, UAE



00971-2-6452630



00971-50-6652671



info@btsconsultant.com



www.btsconsultant.com

Introduction:

One of the most important aspects of drilling wells in today's oil industry is to control formation pressures. One indicator of this important aspect is the fact that regulatory bodies around the world require that specific personnel working in this industry either be trained in well control principles and procedures or be tested to prove their competence.

This course is designed to enhance the candidates' understanding of the basic fundamentals of well control. They will be prepared for the International Well Control Forum (IWCF) exam and gain comprehensive knowledge of well control theory and practices.

Objectives:

By the end of this course delegates will learn about:

- Blowout Prevention Selection
- Diverter Systems Purpose
- Classification of Blowout Preventers
- BOP Operational Characteristic Tests
- Choke Manifolds Purpose
- Kill Lines
- Control Systems for Purpose Mounted
- Remote Control Panels
- Closing-in Kicks (Soft & Hard)
- Well intervention

Who should attend?

Drilling Engineers, Senior Drilling Engineers, Drilling Supervisors, Petroleum Engineers, Completion Engineers, Tool Pushers, Reservoir and Senior Reservoir Engineers, Geologists, Production and Completion Engineers, Foremen, Industry Personnel

Course Outline:

Well Control Equipment

- Blowout preventers
- BOP control systems
- Chokes and manifolds
- Auxiliary equipment

Principles and Procedures

- Shaker house operations, mud pit management, trip tank management
- Leak-off test/MAASP
- Primary well control, causes of kicks, normal and abnormal pressures, gas cutting, lost circulation, kicks as a result of surface initiated actions
- Kicks while drilling:- early warning signs, positive kick signs, kicks while tripping
- Shut in procedures
- Well control methods
- Kill sheet exercises
- Well control management

Drilling Operations

- Making hole and bit selection.
- Drilling fluids operations
- Solids Control
- Casing operations
- Cementing operations
- Case study

Drilling Problems and Prevention

- Lost circulation
- Stuck pipe
- Kick and well control.
- Shale problems
- Fishing operations
- Formation damage
- Well completion

Overall Drilling Practices

- Introduction to drilling operations
- Types of Rigs
- Rig component
- Methods of drilling
- Well proposal and design
- Well drilling program
- Case study

- HS&E Considerations (Health, Safety & Environmental)
- Review and discussion
- Case Study