IWCF Drilling Well Control Drillers (Level 3)

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Introduction:

The IWCF Level 3 Drilling Well Control course is essential training for those currently working in a role that is expected to shut-in a well. The course aims to reinforce and improve the candidate's existing knowledge and appreciation of the various stages of shutting-in a well; from kick detection to shutting in the well, to monitoring once the well is shut in and monitoring the well-kill operation.

This program is designed for people in critical well control positions on drilling installations as well as onshore roles. The standards in the syllabus are based on the practical skills and knowledge required for level 3. Performance criteria have been developed for each of the standards contained in the syllabus.

Objectives:

By the end of this course, delegates will be able to:

- Understand the need for well control training and assessment.
- Understand what hydrostatic pressure is.
- Understand well barrier philosophy in drilling and work over operations.

  Know what is meant by the term kick warning sign.
- Understand pressure losses around a circulating system.

- Learn the principles and procedures used in well control operations with surface or subsea BOP stack as described in the IWCF Rotary Well Control Surface & Subsea BOP Stack Certification Syllabus.
- Use the equipment for well control operations with surface or subsea BOP stack as described in the IWCF Rotary Well Control Surface & Subsea BOP Stack Certification Syllabus.
- Learn that a well control situation can be mastered by use of simulator according to IWCF standards.

Who should attend?

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

Maintenance Engineers, Technologists, Mud Engineers, Well Site Supervisors, Drilling Contractors, Drilling Supervisors, Completion Engineers, Completion Supervisors, Drilling Managers, Drilling Technical Support Personnel, Trainee Drillers, Rig Engineers, Industry Personnel, Completion Engineers, Production staff, Petroleum Engineers, Other technical staff that need an understanding and an appreciation of HSE aspects of well drilling, completion, work-over and well intervention, Roustabouts, Roughnecks, Derrick men, Assistant Drillers and leading drilling personnel offshore, Employees and managers in drilling service Companies, Management of drilling rigs and drilling installations, Engineering personnel for design and modification of drilling facilities.

Course Outline:

- Introduction to well control
- Barrier concept
- Risk management
- Causes of kicks
- Kill warning signs and indicators
- Circulating systems
- Fracture pressure and maximum surface pressure
- Influx characteristics and behavior
- Shut in procedures
- Well control methods
- Well control during casing and cementing operations
- Well control management
- Choke manifold and chokes
- Contingency planning
- Blowout preventers
- Associated well control equipment
- Auxiliary equipment
- Barriers

- Testing
- Bop control systems
- Well control equipment
- API Recommended Practices and API Specifications
- Introduction to formation pressures and strengths

- Hydrostatic pressure
- Dynamic pressure
- Equivalent Circulating Density (ECD)
- Gas law and fluid behavior
- Causes of kicks
- Kick indications
- Shut-in procedures
- MAASP
- Compensating for choke line friction
- Riser margin
- IWCF kill sheets for vertical wells
- Kill methods and kill problems
- Well control in deviated wells

- IWCF kill sheets for deviated to horizontal wells
- Exercise and IWCF practical test
- IWCF equipment test
- IWCF principles & procedures test