IWCF Drilling Well Control Supervisors (Level 4)

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Introduction:

The IWCF Level 4 Drilling Well Control course is essential training for those working in well site supervisory roles and for office-based personnel that are primarily involved in the operational decision-making process and/or well design.

The course aims to build on Level 3 course content (including kick detection and shut-in) and focus on more complex aspects of well control and well kill methodology. The aim of this course is to provide the knowledge, understanding and practical skills necessary to apply safe well control practices in surface and subsea installations. This course is designed to meet the requirements of IWCF. The Level 4 (Supervisor) course is designed for anyone working in a supervisory role and involved in the well design and operational decision-making process of drilling, such as a Drilling Supervisor, Superintendent or Company Man, Tool Pusher, OIM, or Rig Manager.

Objectives:

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

- Understand the primary well control
- Understand the origins of pressure
- Understand what the causes of kicks
- Understand the dynamic wellbore pressures

- Show 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
- Show 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
- Well control management
- Origins of pressure
- Primary well control
- Dynamic wellbore pressures
- Causes of kicks
- Blowout prevention and well control equipment
- Subsea control systems
- Kick warning signs
- Diverting shallow gas kicks
- Shut-in procedures
- Well control methods
- Deviated well control
- Handling on-bottom kicks
- Handling off-bottom kicks
- Stripping operations
- Handling kicks while out of the hole
- Handling kicks in special situations

- Down hole and equipment problems during well control
- Simulator assessment
- 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