IWCF Well Intervention Pressure Control for Supervisors

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Introduction:

This course is designed to fulfill the requirements for International Well Control Forum (IWCF) Well Intervention Pressure Control Qualification. It is assumed that the individual attending this course fulfills the prerequisite requirements of this course. The program is aimed at persons in pressure control critical positions. Candidates are required to complete the IWCF accredited training course prior to sitting assessment.

Course content will be taught according to the IWCF Well Intervention syllabus and will prepare candidates for the IWCF examinations and assessment. This program is aimed at people who are in critical well control positions during well intervention operations. Participants must fulfill the prerequisite requirements of this course having IWCF level 3 Drilling certificate. The course covers topics such as well control methods and influx characteristics. Shut-in procedure is also discussed.

The course will feature:

- Completion Equipment
- Wireline Equipment
- Coiled Tubing Equipment
- Hydraulic Workover (Snubbing) equipment
- Pressure Control Management
- Barrier Principles
- Well Information
- Shut-in Procedures
- Pressure Control Methods
- Problems

Objectives:

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

- Identify the accountabilities of program signatories
- Know the causes and effects of unplanned inflow
- Recognize potential causes of losses
- Define gas migration
- Describe how the lubricates and bleed methods can be applied
- Detect a possible blockage anywhere in the well

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, Workover 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, Derrickmen, 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:

- Well control event
- Pre-operation planning
- Hydrostatic pressure
- Formation pressure
- Fracture pressure

- Primary and secondary well control
- Pressure control equipment
- Introduction to barriers
- Risk management
- Causes to unplanned well inflow
- Loss of hydrostatic pressure
- Swap and surge effects
- Unplanned warning flow warning signs and indicators
- Calculation systems
- Well integrity testing
- Influx characteristics and behaviors
- Shut-in procedure and interpretation

- Influx migration
- Kill methods principles
- Normal and reverse circulation
- Bullheading
- Lubricate and bleed methods
- Contingency planning

- Maximum pressures
- Bottom hole pressure effect
- Blockage in the well
- Blowout preventer
- BOP stack configuration
- Ram type preventers
- Blind/shear ram
- Annular preventers
- Barrier management
- Inflow testing
- Completion equipment

- Rig/up rig/down
- Annulus pressure monitoring
- Coiled tubing equipment
- Hydraulic work over (snubbing) operations
- Seals and sealing elements
- Valves

- Wireline operations
- Surface equipment
- Slick line/ braided line sheer seal BOP
- Wireline BOP pressure retention
- Managing a leak or malfunction in the surface
- Critical operation procedure