

# IWCF Drilling Well Control (Level 2)

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## Table of Contents:

- Introduction
- Objectives
- Who should attend?
- Course Outline



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## Introduction:

**This IWCF Drilling Well Control course** leads to the Level 2 IWCF Certificate in Well Control and prepares delegates for a variety of well site operations. Delegates will develop the skills to effectively create, detect, and control well influx. This comprehensive program is led by instructors with extensive experience in well services and is delivered through lectures, case studies and examples.

The Level 2 Certificate in Well Services is especially beneficial for Oil & Gas professionals who wish to progress to Well Control Level 3 (Driller).

**The introduction to well control course provides** potential well control certificate candidates with an awareness of well control theory, practices and equipment using a combination of drilling simulator and classroom theory/exercises. This introductory course provides the drilling personnel with basic understanding of well control. Progressing junior staff get a solid background and knowledge of why well control is essential, how well control is maintained, what the indicators are that well control might be lost, and how to regain the control once it has been lost.

## Objectives:

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

- Understand the kicks
  - Understand the controlling the well
  - Understand the trip tank system
  - Understand the basic tripping calculations
  - Understand the negative consequences associated with loss of well control
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- Understand the need for detection
  - Recognize the warning signs of abnormal pressure
  - Know the actions that should be taken when kick indicators are present
  - Be familiar with the functions of the bop equipment
  - Be able to select well control method to regain control
  - Be able to fill in a IWCF surface and/or subsea kill sheet
  - Be able to calculate kill mud weight, initial circulation pressure and final circulation pressure
  - Correctly obtain shut in pressures in the well
  - Understand the barrier concept
  - Know the impact pumping cement could have on well control

## 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, Drilling and completion engineers and service company personnel with a basic knowledge of well design principles through to experienced drilling engineers who desire a more theoretical, detailed knowledge of the subject

## Course Outline:

- Introduction to the drilling rig and its equipment (hoisting, rotating, circulating and Blow Out Prevention systems)
  - General well control principles
  - Controlling the well
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- Kicks - what is a kick, what causes a kick?
  - Fluids and pressures
  - How to complete a trip sheet
  - The trip tank system
  - Basic tripping calculations
  - Shut-in methods (drilling and tripping)
  - Risk assessment
  - Hydrostatic pressure
  - Formation pressures
  - Primary & secondary well control
  - Well control equipment
  - Subsea and surface equipment

- Well barrier concept
- Kick causes
- Kick detection
- Influx characteristics and behavior
- Well control methods
- Inflow testing