PROFESSIONAL CERTIFICATION

VELESTO energy
Drilling Academy

IWCF Drilling Well Control Level 2
Combined Surface & Subsea Stack

International Well Control Forum

Course Overview

The IWCF Drilling Well Control Level 2 (Combined Surface & Subsea BOP Stack) course is designed as an introductory-level well control training program for personnel involved in drilling and wellsite operations. This course provides a fundamental understanding of well control principles, focusing on kick detection, well control methods, and equipment used in surface and subsea drilling operations.

The course follows International Well Control Forum (IWCF) standards and serves as a foundation for advanced well control certification (Levels 3 & 4). The training includes classroom sessions, case studies, and knowledge assessments to ensure participants develop a strong foundation in well control.

Course Objectives

By the end of the course, participants will:

1. Understand the importance of well control and its role in drilling operations.
2. Recognize early warning signs of well control incidents and how to respond effectively.
3. Learn the basic pressure control concepts related to hydrostatic, formation, and fracture pressures.
4. Identify and describe the components of well control equipment, including BOPs for surface and subsea operations.
5. Understand primary and secondary well control methods used to manage kicks and well control incidents.
6. Follow industry best practices and safety protocols in well control situations.

Targeted Audiences

This course is tailored for:

- Entry-level rig crew members (Roustabouts, Floorhands, Derrickhands).
- Assistant Drillers, Drilling Engineers, and Wellsite Engineers.
- Oil & Gas Personnel transitioning to well control roles.
- Service company personnel (mud loggers, wireline operators, cementing engineers).
- HSE professionals working in drilling operations.

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Learning Outcomes

Upon successful completion, participants will be able to:

1. Define key well control concepts and pressure fundamentals.
2. Identify causes and early warning signs of kicks in drilling operations.
3. Explain the role of drilling fluids in well control.
4. Describe primary and secondary well control measures and when to apply them.
5. Understand the function of Blowout Preventers (BOPs) in surface and subsea well control.
6. Follow well control safety procedures and industry regulations.

Delivery Method

Interactive Lectures

Case Studies

Group Discussion

Assessment

Participants must pass a written knowledge assessment to obtain the IWCF Level 2 Certificate (Combined Surface & Subsea BOP Stack).

Certification

Participants who pass the assessments will be awarded the globally recognized IWCF Level 2 Drilling Well Control Certification, which is valid for **5 years**.

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Course Outline

Day	Content
Day 1	• Overview • Pre-assessment • Introduction to Well Control • Barriers • Risk Management • Causes of Kicks • Kick Warning Signs and Indicators • Circulating System (1)
Day 2	• Homework Review • Circulating System (2) • Influx Characteristic and Behavior • Shut In Procedures • Well Control Methods
Day 3	• Homework Review • Well Control During Casing And Cementing • Well Control Management ; Relief Well • Contingency planning • Blowout Preventers (1)
Day 4	• Homework Review • Blowout Preventers (2) ; Capping Stack • Associated Well Control Equipment • Choke Manifolds And Chokes • Auxiliary Equipment • Testing • BOP Control Systems • Post-assessment
Day 5	• Combined Surface & Subsea **Equipment Assessment** • Combined Surface & Subsea **Principle & Procedure Assessment**