



*Training Course:
IWCF Drilling Well Control Level 4*

*9 - 13 August 2026
Istanbul (Turkey)
DoubleTree by Hilton Istanbul Esentepe*

Training Course: IWCF Drilling Well Control Level 4

Training Course code: SC236594 From: 9 - 13 August 2026 Venue: Istanbul (Turkey) - DoubleTree by Hilton Istanbul Esentepe Training Course Fees: 6300 € Euro

Introduction

The IWCF Drilling Well Control Level 4 training program is designed by Global Horizon Training Center to prepare experienced drilling personnel for the internationally recognized International Well Control Forum IWCF Level 4 Certification. This intensive five-day program provides participants with advanced knowledge of well control principles, pressure control techniques, kick detection, well kill methods, and emergency response procedures in accordance with current IWCF standards.

The course combines comprehensive classroom instruction, practical simulator-based exercises, and formal competency assessments to ensure participants develop the technical knowledge and decision-making skills required to safely manage complex well control situations. Through realistic drilling scenarios and hands-on simulation, participants gain confidence in preventing, identifying, and controlling well control incidents while maintaining operational safety and compliance with industry best practices.

Objectives

By the end of this training program, participants will be able to:

- Understand advanced well control principles and IWCF Level 4 requirements.
- Recognize well control risks and apply preventive measures.
- Detect kicks and identify early warning indicators.
- Perform shut-in procedures using appropriate techniques.
- Calculate and interpret well control data.
- Apply primary and secondary well control methods.
- Safely manage circulating operations during well kill procedures.
- Respond effectively to abnormal well situations and emergency conditions.
- Demonstrate competency using an IWCF-approved drilling simulator.
- Successfully prepare for and complete the IWCF Level 4 Knowledge and Practical Assessments.

Course Methodology

This program utilizes an interactive and competency-based learning approach that includes:

- Instructor-led presentations
- Interactive classroom discussions
- Case studies from drilling operations
- Group exercises and problem-solving activities
- Well control calculations and practical examples
- Virtual drilling simulator exercises
- Scenario-based practical assessments
- Review sessions and examination preparation
- Formal IWCF Knowledge Assessment

Organizational Impact

Upon successful completion of this program, organizations will benefit from:

- Improved well control competency among drilling personnel.
- Enhanced operational safety and reduced well control incidents.
- Better compliance with international IWCF standards.
- Increased confidence in managing critical well situations.
- Reduced operational risks and non-productive time NPT.
- Improved emergency response capabilities.
- Strengthened safety culture across drilling operations.
- Greater workforce competence and certification readiness.

Target Audience

This program is intended for:

- Drilling Supervisors
- Toolpushers
- Drilling Superintendents
- Senior Drillers

- Offshore Installation Managers OIMs
- Company Representatives
- Wellsite Supervisors
- Drilling Engineers
- Well Intervention Supervisors
- Professionals seeking IWCF Drilling Well Control Level 4 Certification

Outlines

Day 1 - Fundamentals of Well Control and Pressure Management Classroom

Introduction to IWCF Level 4

- Course objectives and certification requirements
- IWCF examination structure
- Roles and responsibilities

Well Control Fundamentals

- Primary and secondary well control
- Formation pressure concepts
- Hydrostatic pressure
- Bottom hole pressure
- Pressure gradients

Drilling Fluids

- Mud properties
- Mud weight calculations
- Equivalent circulating density ECD
- Annular pressure losses

Well Barrier Philosophy

- Barrier principles
- Barrier verification
- Barrier integrity management

Day 2 - Kick Detection, Well Shut-In and Well Kill Operations Classroom

Kick Detection

- Causes of kicks
- Kick warning signs
- Flow monitoring
- Pit gain interpretation

Well Shut-In Procedures

- Hard shut-in
- Soft shut-in
- Surface pressure monitoring
- Recording shut-in pressures

Well Kill Principles

- Driller's Method
- Wait and Weight Method
- Bullheading concepts
- Volumetric control

Well Control Calculations

- Kill mud weight
- Kill sheet preparation
- Pump pressure calculations
- Circulation schedules

Day 3 - Advanced Well Control Operations and Examination Preparation Classroom

Complex Well Control Scenarios

- Deepwater operations
- High-pressure/high-temperature HPHT wells
- Horizontal and directional wells
- Gas migration
- Underground blowouts

Equipment and Systems

- Blowout Preventer BOP systems
- Choke manifold operations
- Choke control principles
- Accumulator systems

Emergency Response

- Equipment failures
- Loss of circulation
- Gas handling
- Decision-making during critical situations

IWCF Examination Review

- Sample examination questions
- Knowledge review
- Instructor-led discussions
- Candidate preparation session

Day 4 - Simulator Practical Assessment Virtual Simulator

Simulator Orientation

- Introduction to simulator interface
- System familiarization
- Operating procedures

Practical Well Control Scenarios

- Kick detection
- Well shut-in operations
- Circulating out influxes
- Choke manipulation
- Pressure management
- Equipment malfunction scenarios
- Emergency decision making

Practical Competency Assessment

- Candidate practical evaluation
- Individual performance assessment
- Instructor feedback
- Final simulator review

Day 5 - IWCF Knowledge Assessment

Final Review Session

- Key well control concepts
- Examination guidance
- Question clarification

IWCF Knowledge Assessment

- Official IWCF Level 4 Knowledge Examination
- Assessment in accordance with IWCF requirements

Course Completion

- Examination completion
- Course debrief
- Performance feedback
- Certification process guidance
- Closing session

Registration form on the Training Course: IWCF Drilling Well Control Level 4

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Full Name (Mr / Ms / Dr / Eng):
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Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng):
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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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or training@gh4t.com

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3 Oudai street, Aldouki,
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