



*Training Course:  
Well Integrity Management & Troubleshooting*

*16 - 20 August 2026  
Istanbul (Turkey)  
DoubleTree by Hilton Istanbul Esentepe*

## Training Course: Well Integrity Management & Troubleshooting

Training Course code: EN236484 From: 16 - 20 August 2026 Venue: Istanbul (Turkey) - DoubleTree by Hilton Istanbul Esentepe Training Course Fees: 6825 € Euro

### Introduction

This advanced training program is designed by Global Horizon Training Center to provide comprehensive knowledge and practical insight into well integrity management across the full lifecycle of oil and gas wells. With increasing regulatory scrutiny and the critical importance of maintaining well barriers, this program focuses on industry best practices aligned with ISO 16530 standards.

Participants will develop the ability to diagnose well integrity issues, analyze annulus pressure behavior, identify leak paths, and troubleshoot critical safety systems such as Surface-Controlled Subsurface Safety Valves SSSV and Emergency Shutdown ESD systems. The program emphasizes risk-based decision-making and proactive integrity management to ensure safe and efficient operations.

### Objectives

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

- Understand the well integrity lifecycle and barrier philosophy based on ISO 16530
- Analyze annulus pressure behavior and interpret PBU Pressure Build-Up tests
- Identify potential leak paths and assess well integrity risks
- Calculate and evaluate allowable leak rates
- Troubleshoot SSSV performance and ESD system failures
- Apply risk-ranking methodologies for well integrity management
- Conduct integrity assessments and support operational decision-making

### Course Methodology

- Technical presentations aligned with international standards
- Real-life case studies from well integrity incidents
- Data interpretation exercises pressure charts, test results
- Group discussions and troubleshooting simulations
- Scenario-based risk assessment activities

## Organizational Impact

- Strengthened well integrity assurance and compliance with ISO 16530
- Reduced operational risks and well failure incidents
- Enhanced capability in diagnosing and resolving integrity issues
- Improved asset reliability and lifecycle management
- Increased competency in safety-critical system troubleshooting

## Target Audience

- Well Integrity Engineers
- Petroleum and Production Engineers
- Drilling Engineers
- Field Supervisors and Operators
- Asset Integrity and HSE Professionals

## Outlines

Day 1:

### Well Integrity Life Cycle & Barrier Management ISO 16530

- Introduction to well integrity concepts and terminology
- Well lifecycle phases and integrity considerations
- Barrier philosophy: primary and secondary barriers
- ISO 16530 framework and compliance requirements
- Barrier diagrams and verification processes
- Common integrity failures and lessons learned

Day 2:

### Annulus Pressure Diagnostics & PBU Testing

- Fundamentals of annulus pressure behavior

- Causes of sustained casing pressure SCP
- Bleed-off testing procedures
- Pressure Build-Up PBU testing methodology
- Interpretation of pressure trends and charts
- Identifying abnormal pressure responses

#### Day 3:

##### Leak Path Identification & Allowable Leak Rates

- Mechanisms of leak path development
- Diagnostic techniques for leak localization
- Tubing, casing, and packer leak scenarios
- Calculating allowable leak rates based on standards
- Risk implications of leakage
- Mitigation and remedial strategies

#### Day 4:

##### SSSV Functionality & ESD System Troubleshooting

- Overview of Surface-Controlled Subsurface Safety Valves SSSV
- Operating principles and control systems
- Common SSSV failure modes and diagnostics
- Emergency Shutdown ESD system architecture
- Troubleshooting ESD failures and signal issues
- Integration with overall well safety systems

#### Day 5:

##### Risk Ranking & Competency Assessment

- Risk-based well integrity management approaches
- Asset risk ranking methodologies

- Prioritization of intervention and maintenance
- Developing integrity management plans
- Final competency assessment case-based evaluation
- Program wrap-up and key takeaways

## Registration form on the Training Course: Well Integrity Management & Troubleshooting

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

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....

Position: .....

Telephone / Mobile: .....

Personal E-Mail: .....

Official E-Mail: .....

### Company Information

Company Name: .....

Address: .....

City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....

Position: .....

Telephone / Mobile: .....

Personal E-Mail: .....

Official E-Mail: .....

### Payment Method

- Please find enclosed a cheque made payable to Global Horizon
- Please invoice me
- Please invoice my company

### Easy Ways To Register

Telephone:  
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