GLOBAL EXPERTS INSTITUTE FOR TRAINING.
ISO 9001-2008 TRAINING PROVISION CERTIFIED

Well Integrity Engineer Casing & Cementing Integrity Management

Schedule Dates:

Start Date	End Date	Place
3-Aug-2025	7-Aug-2025	Italy - Rome

Program Introduction:

Maintaining well integrity is critical throughout the life cycle of an oil or gas well—from drilling to abandonment. One of the cornerstones of well integrity is the proper design, implementation, and monitoring of casing and cementing operations. This specialized course, “Well Integrity Engineer: Casing & Cementing Integrity Management,” provides engineers and technical professionals with the knowledge and tools to ensure structural and environmental integrity, prevent failures, and extend well life. Through theoretical insights and practical case studies, participants will learn how to assess, monitor, and enhance casing and cementing performance in line with industry standards.

Program Objectives:

- ✓ Understand the fundamentals of well integrity and its significance.
- ✓ Gain deep knowledge of casing design, installation, and failure mechanisms.
- ✓ Learn about cementing operations and the role of cement in well integrity.
- ✓ Identify potential integrity threats and implement prevention strategies.
- ✓ Apply standards and regulatory guidelines (e.g., API, ISO) for well integrity.
- ✓ Use diagnostic tools and monitoring techniques to assess casing and cement condition.
- ✓ Plan and execute remedial actions in case of integrity loss.
- ✓ Promote a lifecycle approach to integrity management across all well phases.

Who should attend?

- Well integrity engineers
- Drilling and completion engineers
- Production engineers and supervisors
- Cementing and casing specialists
- Field engineers and wellsite supervisors
- HSE and regulatory compliance officers
- Asset integrity and intervention teams
- Professionals involved in well planning and lifecycle management

Program Outlines

Day One

- Introduction to Well Integrity: Principles and Lifecycle
- Regulatory Frameworks and Industry Standards (API, ISO, NORSOK)
- Role of Casing and Cementing in Well Integrity
- Casing Design: Load Cases, Grades, and Connection Selection
- Casing Installation Procedures and Best Practices

Day Two

- Cementing Design and Slurry Formulation
- Cement Placement Techniques and Displacement Efficiency
- Primary vs. Secondary Cementing Operations
- Cement Integrity Testing: CBL, VDL, and Ultrasonic Tools
- Casing Integrity Testing: Pressure Testing and Leak Detection

Day Three

- Barrier Philosophy and Well Integrity Envelope
- Annular Pressure Management and Sustained Casing Pressure
- Common Casing and Cement Failures: Causes and Case Studies
- Remedial Cementing Techniques and Squeeze Jobs
- Use of Expandable Casing and Alternative Zonal Isolation Tools

Day Four

- Surface Equipment and Wellhead Integrity Considerations
- Risk Assessment and Well Integrity Management Systems (WIMS)
- Data Acquisition, Analysis, and Integrity Dashboards
- Integrity Monitoring Through Well Lifecycle Phases
- Root Cause Analysis for Integrity Failures

Day Five

- Well Suspension and Abandonment Integrity Considerations
- Interface Between Integrity, Drilling, and Production Teams
- HSE Considerations in Casing and Cementing Operations
- Technology Trends in Cementing and Casing Integrity
- Real-World Case Studies and Problem-Solving Workshops

Training Methodology:

- Slide presentations
- Interactive discussion
- Simulations and Gamification
- Online Video material

Cost Quotation in Kuwaiti Dinars

The total cost includes:

- Instructor(s) expenses
- Training materials
- Certification

Total Cost: 1800 KD per Participant

(One Thousand Eight Hundred Kuwaiti Dinar)