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Course Name

Well Integrity Management

Sector Name

Oil, Gas and Chemical

Document Type

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Well Integrity Management

Course Introduction

The Well Integrity Management course is a specialized training program designed to provide professionals with comprehensive knowledge of maintaining safe and reliable well operations throughout the lifecycle of oil and gas wells. Well integrity is a critical aspect of the petroleum industry, ensuring that wells operate safely while protecting people, assets, and the environment.

This course focuses on the principles of well integrity systems, including well barrier management, pressure control, risk assessment, and operational safety procedures. Participants will learn how to identify, monitor, and manage integrity risks associated with drilling, production, intervention, and abandonment operations.

The program also covers key topics such as well barrier design, casing and tubing integrity, corrosion management, leak prevention, and well monitoring techniques. Learners will understand how oil and gas companies apply integrity management frameworks to maintain operational efficiency and comply with international safety standards.

In addition, the course explains methods used for risk management in oil and gas operations, including failure analysis, incident prevention, well testing, and emergency response procedures. Participants will gain practical insights into maintaining well performance while minimizing environmental and operational risks.

The course is ideal for petroleum engineers, drilling engineers, production engineers, HSE professionals, field supervisors, and individuals working in upstream oil and gas operations. It also supports professionals seeking to strengthen their expertise in well safety, operational reliability, and energy industry compliance.

By completing this course, learners will develop the technical and analytical skills required to manage well integrity effectively, improve operational safety, reduce well failure risks, and support sustainable oil and gas production operations.

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Target Audience

✓ Well Integrity, Drilling, and Production Engineers

✓ Field Operators & Technicians

✓ HSE and Compliance Officers

✓ Asset Integrity Managers

✓ Maintenance & Inspection Teams

✓ Oil & Gas Consultants

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Learning Objectives

- ✓ To enable participants to understand the well integrity management principles and risk management processes that have to be applied for assurance of well integrity within a hydrocarbon production environment.
- ✓ Define the building blocks of a successful well integrity management program, annulus pressure management, the equipment items, their performance standards, field data collection requirements, and methodology for data analysis
- ✓ Demonstrate the benefits of risk analysis and share methods applied across the industry
- ✓ Understand the W.I Standards
- ✓ How do we “Make Wells Safer
- ✓ Learn about emerging technologies for well integrity problem diagnosis and new techniques tried for well repair
- ✓ Define the basic elements of well integrity management training for field operators
- ✓ Focus on well-designed elements that enhance or hinder well integrity status definition during the operating phase of the well life-cycle
- ✓ Illustrate the demonstrable benefits of well integrity management from field experience

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Well Integrity Management

Course Outline

✓ 01 Day One

Well Integrity Management Fundamentals

- ✓ Introduction and Definitions
- ✓ Examples of Well Integrity Failures and their Consequences
- ✓ Well Integrity Management System Overview
- ✓ Management and Continual Improvement
- ✓ Regulations, Policies, and Standards
- ✓ Safety Critical Elements, Barriers, and Performance Standards
- ✓ Roles and Responsibilities
- ✓ Measurement, Review, and Improvement

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Well Integrity Management

Course Outline

✓ 02 Day Two

Risk Assessment and Control

- ✓ Quantitative and Qualitative Risk Assessment
- ✓ Frequency and Consequence Assessment
- ✓ Risk Matrix
- ✓ Failure Mode Effect and Criticality Analysis
- ✓ Fault Tree Analysis and Leak Path Diagrams
- ✓ Exercises Based on Actual Cases
- ✓ Well Integrity and Production Risk Management
- ✓ Maintenance and Inspection
- ✓ Valve Standards, testing, and leak rate determination
- ✓ Maintenance and Inspection
- ✓ Annulus Pressure Management
- ✓ Understanding MAASP
- ✓ MAASP Calculation
- ✓ Monitoring and Testing
- ✓ Well Operating Envelope
- ✓ Operating Procedure and Monitoring

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Well Integrity Management

Course Outline

✓ 03 Day Three

Well Integrity and Flow Assurance Risks

- ✓ Cement Integrity Evaluation.
- ✓ Case Histories.
- ✓ Cement Quality Assurance Enhancement.
- ✓ Remedial Actions.
- ✓ Scale and Hydrate Management Overview
- ✓ Corrosion Management Overview
- ✓ Sand and Erosion Management Overview
- ✓ Overview of Standards for Well Integrity
- ✓ Real-life examples are used to illustrate the subjects.

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Well Integrity Management

Course Outline

✓ 04 Day Four

Operational Well Integrity Issues & Risks

- ✓ Interventions and Workovers
- ✓ Maintaining Well Functionality
- ✓ Restoring Well Functionality
- ✓ Legislation, Roles & Responsibilities
- ✓ Well Integrity policy from different companies (Shell, Exxon Mobile, • BP, etc).
- ✓ Well Integrity forms spreadsheets (actual case & How to create).

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Well Integrity Management

Course Outline

✓ 05 Day Five

Recovery, Suspension, or Abandonment

- ✓ Methods
- ✓ Contingencies
- ✓ Criteria
- ✓ The importance of the Management of Information
- ✓ Competency of Well Integrity Professionals
- ✓ Exercises/Discussions on actual cases

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 14, 2027	June 18, 2027	5 days	4250.00 $	UAE , Dubai
Sept. 20, 2027	Sept. 24, 2027	5 days	4950.00 $	Singapore , Singapore
Dec. 21, 2026	Dec. 25, 2026	5 days	4250.00 $	UAE , Dubai
Jan. 17, 2027	Jan. 21, 2027	5 days	4250.00 $	KSA , Riyadh
Aug. 16, 2027	Aug. 20, 2027	5 days	2150.00 $	Virtual , Online
May 24, 2027	May 28, 2027	5 days	4250.00 $	UAE , Abu Dhabi

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