



## Advanced Well Integrity Management

Date	Venues	(\$Fees	Book your seat
24 Mar -28 Mar 2024	Dubai	2900	<a href="#">Register Now</a>

### Why Choose this Training Course?

The Well Integrity Forum (WIF) was established in 2007 and one of the main issues that were initially brought up for review was well-integrity training. WIF members acknowledge a need for well-integrity training of key personnel working with well integrity offshore and onshore.

This 5-day training seminar is designed to provide the participants with knowledge and deeply investigate the faultier and risk of well integrity. The participants have an excellent chance to share ideas and to correct the concept of well integrity management. The seminar will discuss the proper approach to decision-making to provide certainty within the organization.

The knowledge and skills to make critical decision throughout well life cycle is vital, not only for WIM purpose but as well as for economic value. The seminar will focus on the Well Integrity management systems and interfaces with other teams in the organization. Integrity barriers are defined, Well Failure model and how to establish one is discussed, as well how to create an efficient well integrity organization.

The seminar will deepen your knowledge of well integrity management, and develop the skills for designing, operating, and maintaining well equipment with the ultimate objective of ensuring a permanent, safe containment of all wellbore fluids.

#### This training seminar will feature:

- The concept of Well Integrity
- Awareness of regional Standards and Regulations
- Different stages of well operations from Design and Construction, to Production Impact Well Integrity
- Risks associated with different types of well integrity issues
- Different techniques to reduce / mitigate risks
- Procedures, roles and responsibilities of personnel involved in the well lifecycle towards Well Integrity
- The focus on key areas of well integrity assurance
- The Production supervisor's duties with regard to well integrity

### What are the Goals?

#### This training course aims to:

- Improve the delegates' appreciation of the well design and annulus construction; i.e. the well as a "pressure vessel"
- Provide knowledge & understanding of the guidelines and standards that when observed and implemented effectively will ensure well integrity

- Establish an increased awareness of well integrity issues and how they are controlled/managed and by whom
- Provide knowledge of how to maintain equipment for safe and effective operation

## **How will this Training Course be Presented?**

This training seminar will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. The daily workshops will be highly interactive and participative.

## **Who is this Training Course for?**

**This training seminar is suitable to a wide range of professionals but will greatly benefit:**

- Affiliate Technical Directors
- Asset Manager
- Petroleum Engineers
- Production Technologists
- Production Personnel (Production Operators, Maintenance Supervisors)

## **SEMINAR OUTLINE**

### **Day One - Fundamentals of Well Integrity and Detection of Problems**

- Definition of the various components of the well and showing the integrity barriers
- Designing Integrity in Wells-Completion Design-Life expectancy
- Influences on Well Integrity and why it needs managing
- Preventive maintenance reduces operating cost and optimizes production
- Maintenance Processes and Differences
- External well integrity maintenance
- Internal well integrity maintenance
- Ways of losing well integrity
- Technology & tools for internal well integrity diagnostic & monitoring
  - PLT Logging Techniques
  - Securing internal integrity, reservoir reconciliation, leak detection etc.
  - Establishes tubing base line wall thickness and corrosion over life cycle of the well
  - Non-intervention less investigations like Pressure testing
  - Detects leaks
  - Production profile

### **Day Two - How to Prevent Catastrophic Failure of a Well caused by External and Internal Corrosion**

- Risk to the completion string from internal sources
- Barrier understanding
- Show different types of wells
- Monitor for and understand mechanical integrity problems preventing potential production rates
- Sand removal
- Impact of Paraffin's and Asphaltien on well integrity
- How to treat these problems in a proper ways?
- How to execute scale removal
- Cement squeeze for water and gas shut off

### **Day Three - Consequences of Loss of Integrity of One Well to its Surrounding Wells and**

## Potential Financial Exposure

- Group Exercise: Evaluating Well Integrity, Annular pressure management
- Increasing amount of Underground blowouts
- Abandonment: Temporary and permanent

## Day Four - Well Integrity & Barrier Philosophy and How Testing is Done

- Well Failure Model - How to arrive at the document
  - Group Exercise
- Referring to the barriers discussed above, make a plan to test and verify the barriers.
- Leak rate determination calculations
- Risk Based Well Integrity Management and Testing
- The management of Barrier testing
  - Discuss testing methods of the barriers in the well
- Failure Mode and Effects Analyses Diagram (real case document)
  - Show barriers, function and its severity in case of failure
  - Discuss testing and managing the data
- Provide systems and procedures, which ensure that the integrity of the well is assured
  - Ensure that the well is maintained with reference to appropriate procedures and specifications
  - Ensure that the risks of operating the well are as low as reasonably practicable
  - Basis for the development of asset-specific well maintenance and integrity standards, policies, procedures and performance targets

## Day Five - Optimize Well Completion to Optimize Well Integrity during the Lifespan of the Wells, based on life time and possible Intervention Frequencies Assessments

- How to build an organization with sufficient Well Integrity competence and capability
  - Understanding of lowest unit cost, as opposed to cheapest
  - Competent staff
- Example of Well Head Maintenance Manual
- Real Life Documents used and handed-out during the course
  - Well Failure Model
  - Failure Modes and Effect Analyses
  - Risk Based Well Maintenance
  - Well Hand Over Form
  - Well Head Check Sheet
- Case History
- Wrap-up of the class and evaluation



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