BLACKBIRD FOR TRAINING

Well Integrity Assessment and Integrated Field Development

29 March – 2 April 2027
Lyon (France)

UK Traininig
PARTNER



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Introduction

Well integrity is one of the most critical aspects of oil and gas operations, directly impacting safety, environmental protection, and production efficiency. As field development projects become more complex, it is no longer sufficient to address well integrity in isolation. A truly effective strategy integrates Well Integrity Assessment and Integrated Field Development, ensuring that technical, operational, and strategic decisions work together to maximize reliability and minimize risks.

This course is designed for engineers, project managers, technical specialists, and decision-makers who seek to strengthen their expertise in evaluating well integrity while aligning it with comprehensive field development plans. By combining industry standards, advanced tools, and real-world case studies, participants will gain both theoretical insights and practical skills to enhance performance and ensure sustainable operations.

Course Objectives

- Understand the fundamental principles of well integrity and its critical components.
- Conduct risk assessments related to well integrity and establish proactive mitigation strategies.
- Apply international standards and best practices for well integrity assessment.
- Integrate well integrity evaluations into field development planning.
- Utilize modern tools and technologies for monitoring and diagnosing well issues.
- Strengthen decision-making capabilities with data-driven insights.
- Manage challenges across technical and managerial teams in integrated projects.
- Develop long-term improvement plans for sustainable field performance.

Course Outlines

Day 1: Fundamentals of Well Integrity

- Introduction to well integrity and its significance across the field lifecycle.
- Key components of well integrity systems.
- International standards and guidelines.
- Mechanical and electrical systems supporting well integrity.
- Case examples of well integrity failures.
- Group exercise: identifying weaknesses in well systems.



Day 2: Risk Assessment and Operational Analysis

- Risk assessment methods for well integrity.
- Qualitative and quantitative evaluation tools.
- Early detection strategies for potential well issues.
- Integrating risk analysis into contingency planning.
- Case study: handling a well integrity failure.
- Interactive exercise: developing a risk mapping matrix.

Day 3: Integrated Field Development

- Defining the concept of integrated field development.
- Linking well integrity with field planning strategies.
- Strategic planning methodologies for field development.
- Economic evaluation in development decision-making.
- Integrating geological and engineering data.
- Practical exercise: designing an integrated field development plan.

Day 4: Modern Tools and Technologies

- Latest technologies for monitoring well integrity.
- Smart sensors and automated systems.
- Field inspection and diagnostic techniques.
- Role of predictive analytics and AI in well integrity.
- Incorporating digital solutions in field development.
- Case study: applying new technologies to improve integrity.

Day 5: Application and Comprehensive Evaluation

- Review of core concepts and lessons learned.
- Simulation of a complete well integrity assessment.
- Identifying gaps in integrated field development plans.
- Developing a personal action plan for professional growth.
- Participant performance assessment through practical activities.
- Group discussion: best practices and shared experiences.



Why Attend This Course: Wins & Losses!

- Gain in-depth knowledge of well integrity and integrated field development.
- Learn advanced tools for operational risk management.
- Improve strategic decision-making with data-backed insights.
- Acquire practical skills through exercises and simulations.
- Enhance operational efficiency and reduce technical risks.
- Build a holistic understanding that links technical and management perspectives.
- Strengthen your capability to manage complex projects effectively.
- Access training content based on global best practices.

Conclusion

Well Integrity Assessment and Integrated Field Development are inseparable pillars of sustainable oil and gas operations. This program equips participants with advanced knowledge, analytical frameworks, and practical exercises to address real-world challenges in well integrity and field planning.

The course goes beyond theory, combining practical simulations and real case studies to ensure participants can apply new skills directly within their organizations. By bridging the gap between integrity management and field development, the program enables professionals to enhance operational reliability, reduce risks, and support long-term organizational success.

Ultimately, participants will leave with a comprehensive perspective, ready to integrate well integrity assessments into broader field development strategies, ensuring both safety and efficiency at every stage of operation.

