GTC Transforming Emerging Economies

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Integrated Production Surveillance and Optimization (IPSO)

COURSE OVERVIEW

Integrated Production Surveillance and Optimization (IPSO) focus on the use of digital technologies, real-time monitoring, and data-driven analytics to enhance oil and gas production performance. It covers end-to-end workflows that integrate surveillance methods, real-time data analytics, production system modeling, and optimization strategies to maximize asset performance. The course emphasizes practical application through case studies and hands-on exercises, enabling participants to identify bottlenecks, enhance production efficiency, and support proactive decision-making in dynamic operating environments.

WHO SHOULD ATTEND?

This course is designed for petroleum engineers, production engineers, reservoir engineers, and field operations professionals who are involved in production monitoring, analysis, and optimization activities. It is also suitable for asset managers, data scientists working in upstream oil and gas, and other technical staff seeking to enhance their understanding of integrated surveillance and optimization processes to support smarter, data-driven production management.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Gain a solid foundation in integrated surveillance principles and production optimization workflows.
- Develop the ability to interpret real-time production data for proactive decision-making.
- Apply digital tools and analytical techniques to identify and mitigate production challenges.
- Design strategies to maximize hydrocarbon recovery while reducing operational risks and costs.
- Understand best practices for integrating multidisciplinary data in surveillance and optimization.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- End-to-end coverage of surveillance and optimization workflows.
- Hands-on exercises with digital tools and real case studies.
- Practical approaches to production bottleneck identification and resolution.
- Integration of data-driven and physics-based models for optimization.
- Best practices for enhancing efficiency, reliability, and decision-making in production systems.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.
1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded