

Intelligent Well Systems and Smart Completion Technologies

COURSE OVERVIEW

This course provides an in-depth exploration of intelligent well systems and smart completion technologies, focusing on their design, functionality, and role in optimizing hydrocarbon recovery. Participants will gain insights into the integration of downhole sensors, advanced completion tools, and real-time data acquisition systems that enable proactive reservoir management and production optimization. Emphasis will be placed on the technical principles, operational considerations, and practical applications of these technologies in complex field environments.

WHO SHOULD ATTEND?

The course is designed for petroleum engineers, production technologists, reservoir engineers, field development planners, and other professionals involved in well completion, intervention, and production optimization. It is also valuable for project managers, decision-makers, and service company specialists seeking to strengthen their technical knowledge and strategic understanding of intelligent well and smart completion solutions.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the concepts, architecture, and components of intelligent well systems.
- Evaluate the applications and benefits of smart completion technologies in maximizing reservoir productivity.
- Analyze real-time well data for informed decision-making and proactive reservoir management.
- Assess design, installation, and operational challenges of smart completions.
- Apply best practices to optimize well performance and minimize interventions.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Comprehensive coverage of intelligent well system architecture and smart completion tools.
- Real-world case studies demonstrating applications and performance outcomes.
- Practical guidelines for design, deployment, and field operations.
- Hands-on exposure to data interpretation and production optimization strategies.
- Future trends in digital oilfield integration and advanced completion technologies.

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