

# Digital Field Development Planning and Execution

## COURSE OVERVIEW

Digital Field Development Planning and Execution integrates advanced digital technologies, data analytics, and automation tools to optimize the design, development, and operation of oil and gas fields. This course equips participants with the knowledge and practical skills to leverage digital twins, real-time data, and simulation models for strategic field planning, cost-effective execution, and enhanced production performance. Participants will learn how digital workflows streamline collaboration across disciplines, reduce uncertainties in reservoir management, and drive informed decision-making throughout the field's lifecycle from concept to production optimization.

## WHO SHOULD ATTEND?

This course is designed for petroleum engineers, reservoir engineers, production engineers, project managers, and geoscientists involved in field development planning and execution. It is also suitable for digital transformation specialists, decision-makers, and professionals from both operating companies and service providers who are seeking to enhance their knowledge of digital solutions and apply them to upstream oil and gas operations.

## COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the role of digital technologies in modern field development planning.
- Apply digital workflows to integrate subsurface, drilling, and production data.
- Develop optimized development scenarios using advanced modeling and analytics.
- Identify strategies to reduce risk, cost, and cycle time through digital execution.
- Enhance cross-disciplinary collaboration for improved decision-making.

## KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- End-to-end coverage of digital field development planning and execution.
- Real-world case studies and practical applications.
- Hands-on exposure to digital tools and workflows.
- Focus on integration across geoscience, reservoir, drilling, and production domains.
- Best practices for maximizing value and minimizing risk in field development.

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