

Digital Oilfield & Asset Management Technologies

COURSE OVERVIEW

This course examines the digital technologies and data-driven processes transforming modern upstream operations. It focuses on integrating real-time data, advanced analytics, and automated systems to optimize asset performance and decision-making. Participants will learn to leverage digital solutions for production optimization, predictive maintenance, and improved recovery across the asset lifecycle.

WHO SHOULD ATTEND?

This course is designed for petroleum engineers, asset managers, production technologists, data analysts, and operations personnel. It also benefits IT professionals, facilities engineers, and technical staff involved in digital transformation initiatives within upstream oil and gas companies.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Identify opportunities for digital technology implementation in upstream assets.
- Apply data analytics and visualization techniques for production optimization.
- Implement predictive maintenance strategies using equipment monitoring data.
- Design integrated workflows for real-time surveillance and exception-based management.
- Evaluate the business case for digital oilfield technologies and implementation strategies.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Real-time monitoring systems and IoT sensor networks.
- Data management architectures and digital twin concepts.
- Machine learning applications for production forecasting and equipment failure prediction.
- Automated workflow design and exception-based surveillance.
- Change management strategies for digital transformation.
- Cybersecurity considerations for operational technology.
- Performance metrics for measuring digital initiative success.

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