

Advanced Drilling Optimization and Real-Time Well Performance Analytics

COURSE OVERVIEW

The course provides participants with an extensive knowledge and practical skills to enhance drilling efficiency, minimize operational risks, and maximize well performance through advanced optimization strategies and data-driven decision making. The course integrates drilling engineering principles, cutting edge technologies and real time analytics, enabling participants to understand key performance monitoring and the integration of digital technologies to optimize drilling operations in complex environment.

WHO SHOULD ATTEND?

This course is intended for drilling engineers, well performance analysts, operations supervisors, petroleum engineers, rig managers, and other oil and gas professionals involved in planning, executing, and managing drilling operations who seek to strengthen their technical expertise and leverage real time data for improved performance.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Apply advanced drilling optimization techniques to improve operational efficiency and well delivery.
- Utilize real-time analytics to monitor, interpret, and enhance drilling performance.
- Identify and mitigate drilling-related risks through data-driven decision-making.
- Integrate key performance indicators (KPIs) to support continuous improvement in drilling operations.
- Employ digital tools and technologies to enhance collaboration and operational transparency.
- Develop predictive models to forecast well performance and optimize drilling parameters.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Advanced drilling methods like horizontal, multilateral, and extended reach drilling.
- Predictive maintenance to reduce downtime and improve equipment reliability.
- Integrating AI and big data for adaptive drilling strategies.
- Methods to improve drilling efficiency while minimizing environmental impact.
- Techniques for optimizing well placement to maximize production.
- Using real-time data and analytics to monitor well performance.

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