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# Advanced Risk Assessment and Predictive Management for Oil & Gas Operations

### **COURSE OVERVIEW**

This course is designed to equip participants with cutting edge tools, methodologies and strategies for identifying, evaluating and mitigating complex risks in upstream, midstream and downstream operations. The course emphasizes predictive analytics, scenario base modelling, and proactive management techniques to enhance operational reliability, reduce costly downtime and improve safety performance. By integrating industry best practices with factual case studies, the course enables delegates to anticipate threats, implement effective control measures and make informed decisions that strengthen resilience across the oil and gas value chain.

#### WHO SHOULD ATTEND?

This course is tailored for oil and gas professionals involved in safety, risk management, asset integrity, operations and project planning. It is particularly relevant for HSE managers, risk analysts, drilling and production engineers, operational leaders and decision makers who are responsible for managing uncertainty, safeguarding assets and ensuring compliance in high-risk environments.

## **COURSE OUTCOMES**

Delegates will gain the skills and knowledge to:

- Develop the ability to identify, assess, and prioritize risks using advanced methodologies.
- Apply predictive tools and analytics to forecast potential operational and safety threats.
- Strengthen decision-making skills through scenario-based and data-driven approaches.
- Enhance organizational resilience by integrating proactive risk management into operations.
- Improve compliance, safety performance, and asset protection through best-practice frameworks.
- Utilize real-time monitoring and AI insights to anticipate and mitigate emerging operational risks.

### **KEY COURSE HIGHLIGHTS**

At the end of the course, you will understand;

- Approaches to optimize operational efficiency and asset lifespan through risk management.
- How advanced risk assessment tools identify potential hazards in oil and gas operations.
- Using predictive analytics to forecast equipment failures and avoid unplanned downtime.
- Data collection techniques with sensors and IoT devices for real-time monitoring.
- Integrating predictive maintenance with safety and environmental compliance frameworks.
- Leveraging AI and machine learning to enhance decision-making and emergency preparedness.

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











