

Strategic Risk Assessment and Management for Oil & Gas Projects

COURSE OVERVIEW

This intensive course is designed to equip professionals in the oil and gas industry with advanced strategies for identifying, assessing, and managing risk across upstream, midstream, and downstream projects. With the complexity, capital intensity, and regulatory demands of oil and gas operations, effective risk management is critical to ensure safety, profitability, and compliance.

The course covers enterprise risk frameworks, project risk evaluation, regulatory risks, HSE (Health, Safety & Environment) considerations, and geopolitical and financial exposure unique to oil and gas operations. Real-world case studies and tools like risk matrices, bow-tie analysis, and quantitative risk modeling are explored in detail.

WHO SHOULD ATTEND?

This course is designed for Project Managers and Engineers, Risk Analysts, HSE and Compliance Officers, Operations and Asset Managers, Finance Professionals, and Policy Advisors involved in the execution, oversight, or strategic planning of oil and gas projects.

COURSE OUTCOMES

Delegates will gain knowledge and skills to:

- Apply strategic risk management frameworks specific to oil & gas projects
- Identify technical, financial, operational, and regulatory risks
- Quantify risk using analytical models and qualitative assessment tools
- Develop mitigation and contingency strategies
- Align risk management with business and safety objectives
- Conduct stakeholder and geopolitical risk assessments

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand:

- Risk typologies across upstream, midstream, and downstream projects
- Quantitative and qualitative risk analysis (QRA) in high-stakes environments
- HSE risk assessment tools and safety case development
- Use of bow-tie diagrams, risk matrices, and Monte Carlo simulations
- Managing geopolitical, regulatory, and environmental uncertainty
- Case studies from major oil & gas projects (FPSOs, pipelines, LNG terminals, refineries)
- Integration of risk management into project lifecycle and decision-making
- International standards and compliance (ISO 31000, API RP 75, etc.)

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