

# **RISK ASSESSMENT AND RISK MANAGEMENT FOR OIL & GAS PROJECTS**

London - UK  
17 - Aug 2026 - 21 - Aug 2026  
\$6,000



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TRAINING CENTER



## Introduction

Oil and gas projects face constant exposure to technical, financial, environmental, and operational uncertainties. This course equips participants with practical tools to identify, evaluate, and control risks across the project lifecycle. Through structured methods and real industry scenarios, participants learn to build robust risk registers, apply quantitative and qualitative analysis techniques, and design mitigation strategies that protect budgets, schedules, and safety outcomes. Furthermore, the course connects risk management principles to international standards used across upstream, midstream, and downstream operations. As a result, participants leave with a clear, actionable framework for managing risk in complex energy projects.

## Risk Assessment and Risk Management for Oil & Gas Projects Course Objectives

- Identify key risk categories affecting oil and gas projects
- Apply systematic risk identification techniques
- Conduct qualitative and quantitative risk assessments
- Build and maintain an effective risk register
- Develop risk response and mitigation strategies
- Apply international risk management standards and frameworks
- Assess financial and schedule impacts of project risks
- Evaluate contractual and operational risk exposure
- Design monitoring systems for ongoing risk control
- Communicate risk findings clearly to stakeholders

## Course Methodology

- Interactive lectures supported by real oil and gas case studies

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Info@gentextraining.com



- Group exercises to practice risk identification and scoring
- Practical workshops using risk registers and assessment templates
- Discussions comparing risk frameworks across project types
- Scenario-based exercises simulating live project risk situations

## Who Should Take This Course

- Project managers and project engineers
- Risk and HSE officers
- Contract and procurement professionals
- Operations and maintenance supervisors
- Planning and cost control engineers
- Technical and asset managers in the oil and gas sector

## Risk Assessment and Risk Management for Oil & Gas Projects Course Outlines

### Day 1: Foundations of Risk Management

- Overview of project risk concepts
- Risk categories in oil and gas projects
- Risk management lifecycle stages
- Roles and responsibilities in risk management
- Introduction to risk management standards
- Common causes of project risk
- Linking risk management to project objectives





## Day 2: Risk Identification Techniques

- Brainstorming and checklist methods
- Structured interviews and expert judgment
- SWOT analysis for project risk
- Root cause analysis techniques
- Building a comprehensive risk register
- Categorizing risks by source and impact
- Documenting assumptions and constraints

### Day 3: Qualitative and Quantitative Risk Analysis

- Probability and impact assessment
- Risk matrices and heat maps
- Monte Carlo simulation basics
- Sensitivity and decision tree analysis
- Estimating cost and schedule risk exposure
- Prioritizing risks for further action
- Interpreting analysis results for decision-making

## Day 4: Risk Response and Mitigation Strategies

- Risk avoidance, transfer, mitigation, and acceptance
- Contractual risk allocation methods
- Insurance and financial risk transfer tools
- Contingency and management reserves
- Developing risk response action plans
- Aligning responses with project constraints



- Assigning risk owners and accountability

## Day 5: Risk Monitoring, Control, and Reporting

- Continuous risk monitoring techniques
- Updating the risk register throughout the project
- Key risk indicators and early warning signs
- Reporting formats for stakeholders and management
- Lessons learned and knowledge transfer
- Integrating risk management into project governance
- Building a sustainable risk culture

## Conclusion

By successfully completing Risk Assessment and Risk Management for Oil & Gas Projects, participants will gain a practical understanding of risk identification, analysis, and mitigation methods used across the oil and gas industry. In addition, they will acquire the skills to build reliable risk registers, apply proven analysis tools, and communicate risk information effectively to project stakeholders. Gentex Training Center delivers this course to help professionals strengthen project resilience and support safer, more predictable project outcomes.