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OIL AND GAS | OG-007

Managing Project Risks in the Oil & Gas Industry

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Course content

Why Attend

INTRODUCTION

The scrutiny faced by the oil and gas industry has never been greater. While the industry still accounts for the majority of the world's energy generation, opponents contest the use of such fossil fuels and such. Climate change and greenhouse gas emissions legislation, along with concern over the future of hydraulic fracturing, pose major problems to the oil and gas industry and with more households and businesses tightening their belts to make every penny count amidst an ongoing recession, oil and gas companies must address many of the same concerns.

Ultimately, the fact remains that without the industry, the lights would go out and our cars would stop running.

That said, the industry is under incredible stress and the risk factors affecting it are complex. While many oil and gas companies have seen their own financials improve, the financial stability of partners, customers, vendors and suppliers remain top risk factors.

This all means that the need to manage project risks effectively has never been of great importance to the industry as a whole.

This Project Risk Management training course provides a structured approach to managing project related risks that ensure value is protected, and most importantly, minimizes the chances of major events affecting not only the project but the organisation to the benefit of all.

This training course will highlight:

- Current issues within the Oil & Gas Industry that need to be tackled
- Typical risk responses used by the Oil & Gas Industry mega projects
- Risk ownership as a critical part of risk management
- The importance of communication and escalation in Oil & Gas projects
- Key qualitative, semi-quantitative and quantitative risk responses

Course Methodology

Course content

Course Methodology

This Managing Project Risks in the Oil & Gas Industry training course incorporates an interactive mixture of lectures supported by relevant practical exercises and an extensive oil project case study running through the five days of the training course.

This enables you to fully understand and address the life-cycle considerations of project risk management.

Organisational Impact

In the Oil and Gas Industry the failure to manage project risk effectively can lead to catastrophic events occurring. No organisation can afford to be complacent about such events, and ensuring that project risk management is being carried out effectively must be a strategic goal requirement that everyone adheres to.

Delegates who attend this training course will receive competence based training, providing the basis for activities that can be delivered on their return to the workplace. Risk management is pervasive in the Oil & Gas industry.

Individuals in this industry must acquire the necessary skills to use risk & technology tools effectively and efficiently. These technology tools can be used both to develop and apply other functional competencies related to risk management when working on projects.

Personal Impact

The ability to manage project risk is a core skill for anyone involved in delivering a project. When carried out properly projects are more predictable, value delivery is enhanced and fewer accidents and harm to the environment occur.

Personal competencies relate to the attitudes and behaviours of individuals within Oil & Gas projects. Developing these personal competencies will enhance the way professional relationships are handled and facilitate individual learning and personal improvement.

Delegates will be able to enhance their credibility within their organisation knowing that they can competently coordinate a risk process which will benefit their project delivery and ultimately their career.

WHO SHOULD ATTEND?

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Course Methodology

This Managing Project Risks in the Oil & Gas Industry training course is suitable to a wide range of professionals but will greatly benefit anyone working on, interfacing with, or providing governance with respect to oil and gas projects:

- Project Risk Managers
- Project Managers
- Project Management Professionals
- Commercial Management
- Project Engineers
- Procurement & Logistics
- Planners
- Estimators / Cost-Controllers

Course Objectives

This Managing Project Risks in the Oil & Gas Industry training course will take delegates through a real-life Oil & Gas project as a case-study, working with the case-study to develop and evaluate using industry best-practice tools.

This method will provide a real insight into the challenges, and strengths that a positive Risk Management process can provide in such an uncertain industry.

At the end of this training course, participants will:

- Develop key risk management competencies such as developing an appropriate risk process for an organisation in the oil & gas Industry
- Understand the key roles, responsibilities and activities associated with project risk management
- Understand how best to apply appropriate tools and techniques to optimise risk management for your projects

Course content

Course Objectives

• Learn to deal with the changing nature of risk through a stage gated project process

• Understand the human side of risk in terms of risk perception

• Understand the crucial challenges and lessons learned associated with oil and gas project risk management

Course outline

Fundamental Project Risk Management Concepts

• What is risk?

• What is different about project risk in the Oil and Gas Industry?

• The Dual Nature of Risk: Threats and Opportunities

• Business, Operational and Project Risk

• Introducing the Risk Management Process

• Planning Risk Management

Roles & Responsibilities and Identifying Risks

• Key Risk Management Roles and Responsibilities

• Good Practices Adopted in Oil and Gas Organisations

• Alternative Approaches - Which is right for your organisation?

• Risk Identification

• Oil and Gas Industry Specific Techniques

• Overview of MAR, LOPA, HAZID HAZOP

• The 'Bow Tie' Methodology

• Alternative Techniques based on Team Dynamic

• Sabotage Teams

Course content

Course outline

• Categorisation and the Use of Risk Breakdown Structure (RBS)

Risk Analysis Techniques

• Alternative Risk Analysis Assessment Formats & Recommended Practices in the Oil & Gas Industry

• Differences between Qualitative, Semi-Quantitative and Quantitative

• Assessing Impact

• Organisational / Business impact vs. Safety / Environmental Impact

• Tools and Techniques for Risk Analysis

• Sensitivity Analysis

• Expected Monetary Value Analysis

• Further Factors to Consider – The People Side of Risk

• Perception, Past Experience and Mental Outlook

• External Factors - regulator activities & the effect of catastrophic incidents in the industry

• An Overview of Modelling and Monte Carlo Simulations

• Risk Analysis Outputs

Planning Risk Responses and Implementing Risk Responses

• Risk Prioritisation

• Risk Response Strategies

• Action Plan Formulation / Evaluation

• Appropriate Approval / Endorsement of Action Plans

• Implementing and Monitoring

• Earned Value Management

• Reserve Analysis

• Implementing Response Plans – good practices

Course content

Course outline

Reporting and Communicating Risk, Extracting Lessons & Lessons Learned

- Risk Reporting
- Escalating Risks
- Embedding the Risk Management Process
- How to Identify and Feedback Lessons Learned
- Key Risk Management Lessons from the Oil and Gas Industry and Megaprojects in Particular
- Applying the Lessons and How to Implement in an Organization

Seminar dates

Available seminar dates

Live dates and pricing for Managing Project Risks in the Oil & Gas Industry generated from the course details page.

Date	Location	Format	Fee
14 - 18 September 2026	Istanbul - Turkey	Classroom	**€2,280.-**
5 - 9 October 2026	Vienna - Austria	Classroom	**€3,400.-**
16 - 20 November 2026	Barcelona - Spain	Classroom	**€3,080.-**
7 - 11 December 2026	Paris - France	Classroom	**€3,600.-**
11 - 15 January 2027	Geneva - Switzerland	Classroom	**€4,200.-**
8 - 12 February 2027	Amsterdam - Netherlands	Classroom	**€3,400.-**
8 - 12 March 2027	London - U.K	Classroom	**€3,360.-**
12 - 16 April 2027	Istanbul - Turkey	Classroom	**€2,280.-**
10 - 14 May 2027	Vienna - Austria	Classroom	**€3,400.-**
14 - 18 June 2027	Barcelona - Spain	Classroom	**€3,080.-**
12 - 16 July 2027	Paris - France	Classroom	**€3,600.-**
9 - 13 August 2027	Geneva - Switzerland	Classroom	**€4,200.-**
13 - 17 September 2027	Amsterdam - Netherlands	Classroom	**€3,400.-**
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