informatech

OIL AND GAS | OG-024

Risk Assessment & Risk Management for Oil & Gas Projects

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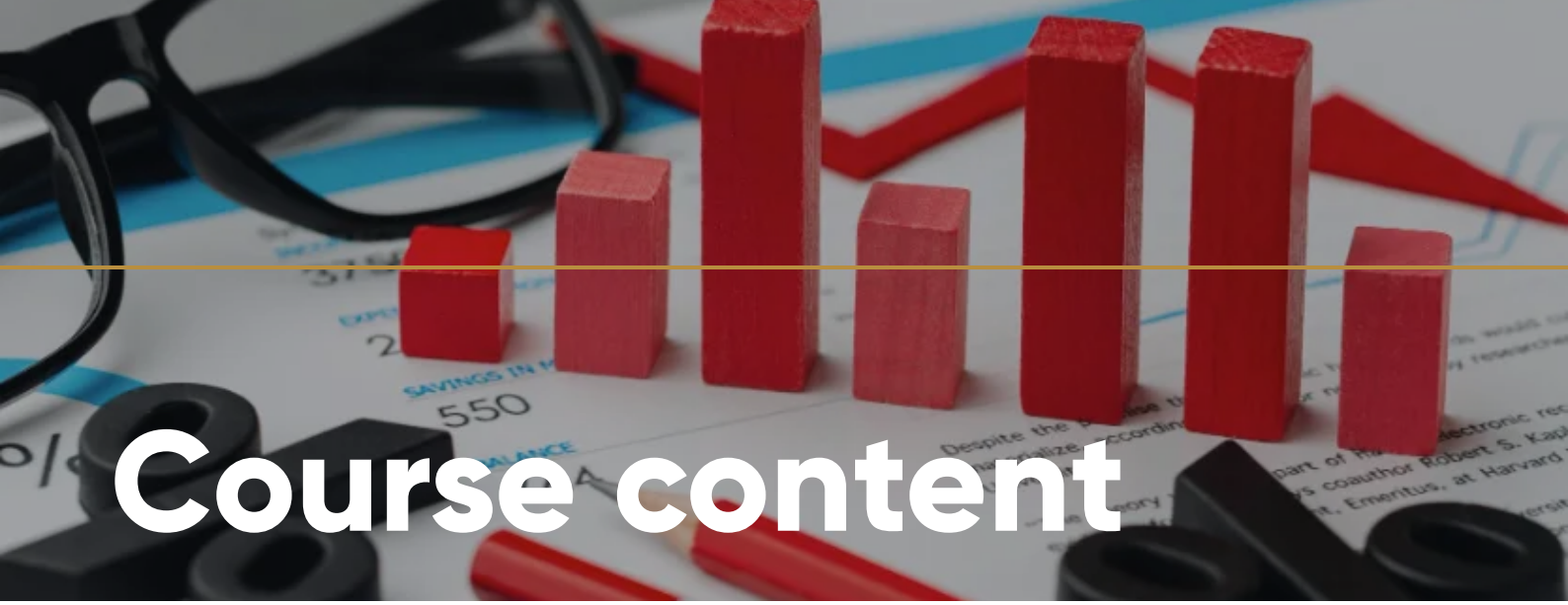


Course content

Why Attend

Why Attend Oil and gas projects operate in complex environments where technical, commercial, operational, environmental, and regulatory risks can significantly impact project success. This course equips participants with practical techniques for identifying, assessing, analyzing, mitigating, and monitoring risks throughout the project lifecycle, enabling organizations to improve decision-making, reduce uncertainty, and enhance project performance.

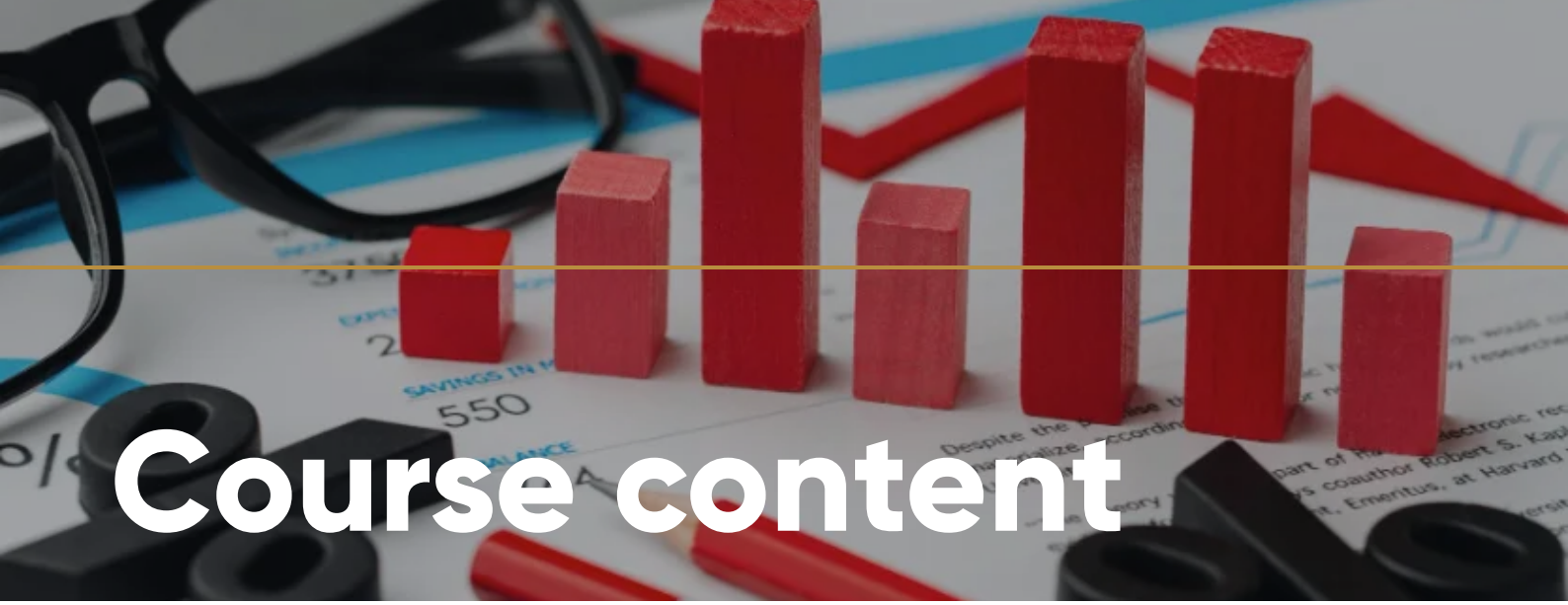
Course Methodology The course combines instructor-led presentations, practical workshops, risk assessment exercises, case studies, group discussions, quantitative analysis examples, and real-world oil and gas project scenarios.

Course Objectives By the end of this course, participants will be able to:

- Understand enterprise and project risk management principles within the oil and gas industry
- Identify and evaluate technical, commercial, operational, and project risks
- Apply qualitative and quantitative risk assessment techniques
- Develop practical risk registers and risk management plans
- Monitor and control project risks throughout the project lifecycle
- Prepare effective risk reports for management and stakeholders
- Support informed decision-making through structured risk management practices

Target Audience

- Project managers
- Project engineers
- Risk management professionals
- Petroleum and production engineers
- Operations managers and supervisors
- HSE professionals



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Target Audience

• Oil and gas professionals involved in project planning and execution

Target Competencies

• Risk assessment

• Project risk management

• Decision-making

• Quantitative risk analysis

• Risk reporting

• Project governance

• Operational risk management

• Strategic planning

Course outline

Day 1: Foundations of Risk Management in Oil & Gas Projects

• Understanding the principles, objectives, and value of organizational risk management

• Evaluating the benefits and limitations of structured risk management approaches

• Reviewing practical risk management applications across oil and gas operations and projects

• Understanding risk management throughout the project lifecycle from concept to close-out

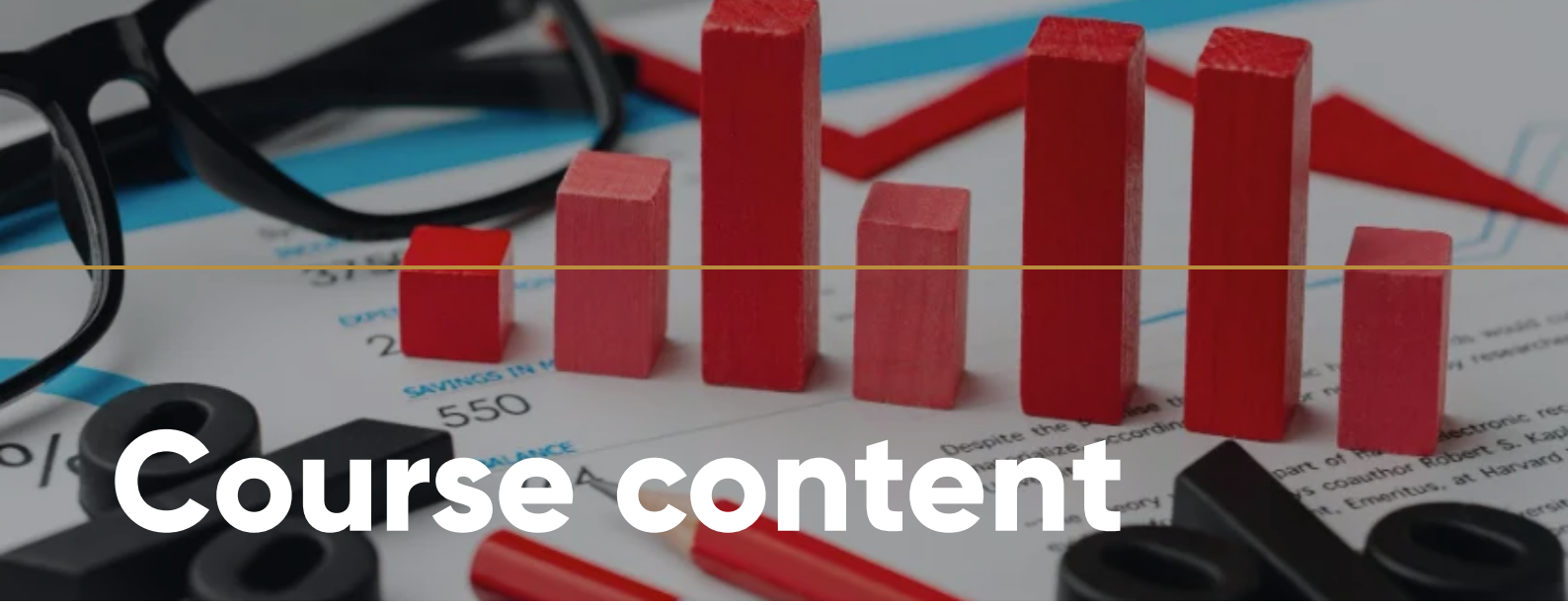
• Promoting organizational risk awareness and leadership commitment

• Understanding risk management responsibilities across different organizational levels

• Differentiating strategic, technical, commercial, operational, and implementation risks

Day 2: Risk Identification and Risk Management Frameworks

• Understanding proactive risk management methodologies and industry best practices



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Course outline

• Applying the risk management process throughout project planning and execution

• Developing and maintaining effective project risk registers

• Establishing project risk management plans and governance structures

• Applying systematic techniques for identifying project uncertainties and emerging risks

• Utilizing structured tools and workshops to support comprehensive risk identification

Day 3: Risk Analysis and Evaluation Techniques

• Applying qualitative methods to evaluate project risks and priorities

• Understanding the characteristics of High Reliability Organizations and resilient operations

• Utilizing probability-impact matrices for risk prioritization

• Applying structured decision-making techniques to evaluate response options

• Understanding quantitative risk analysis concepts and practical applications

• Applying Fault Tree Analysis, Reliability Block Diagrams, and other analytical techniques to assess complex project risks

Day 4: Risk Response Planning and Project Risk Control

• Developing practical risk treatment and mitigation strategies

• Preparing comprehensive project risk management plans

• Estimating contingency requirements and risk management budgets

• Monitoring project risks and evaluating the effectiveness of response actions

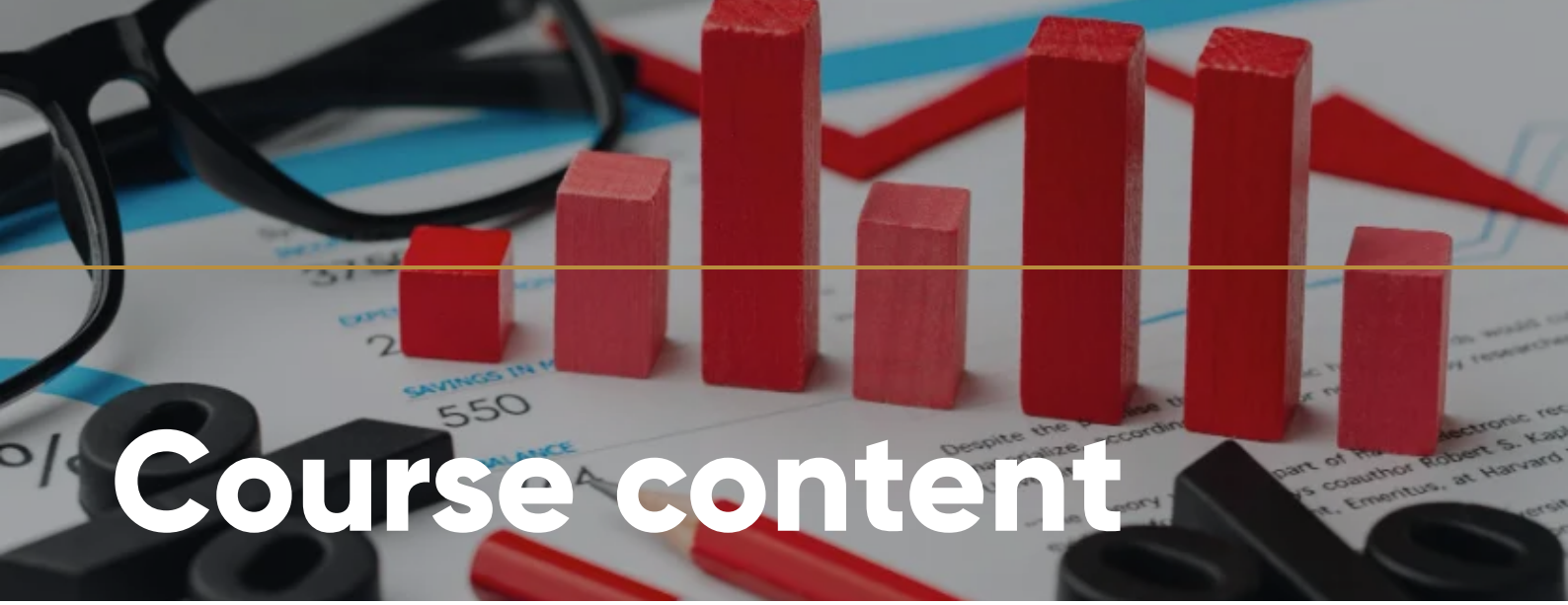
• Identifying and managing opportunities that enhance project value

• Applying risk assessment techniques during project execution to support informed decision-making

Day 5: Risk Reporting, Communication, and Continuous Improvement

• Developing effective risk reports that support management decision-making

• Understanding the characteristics of high-quality risk reporting and common reporting weaknesses



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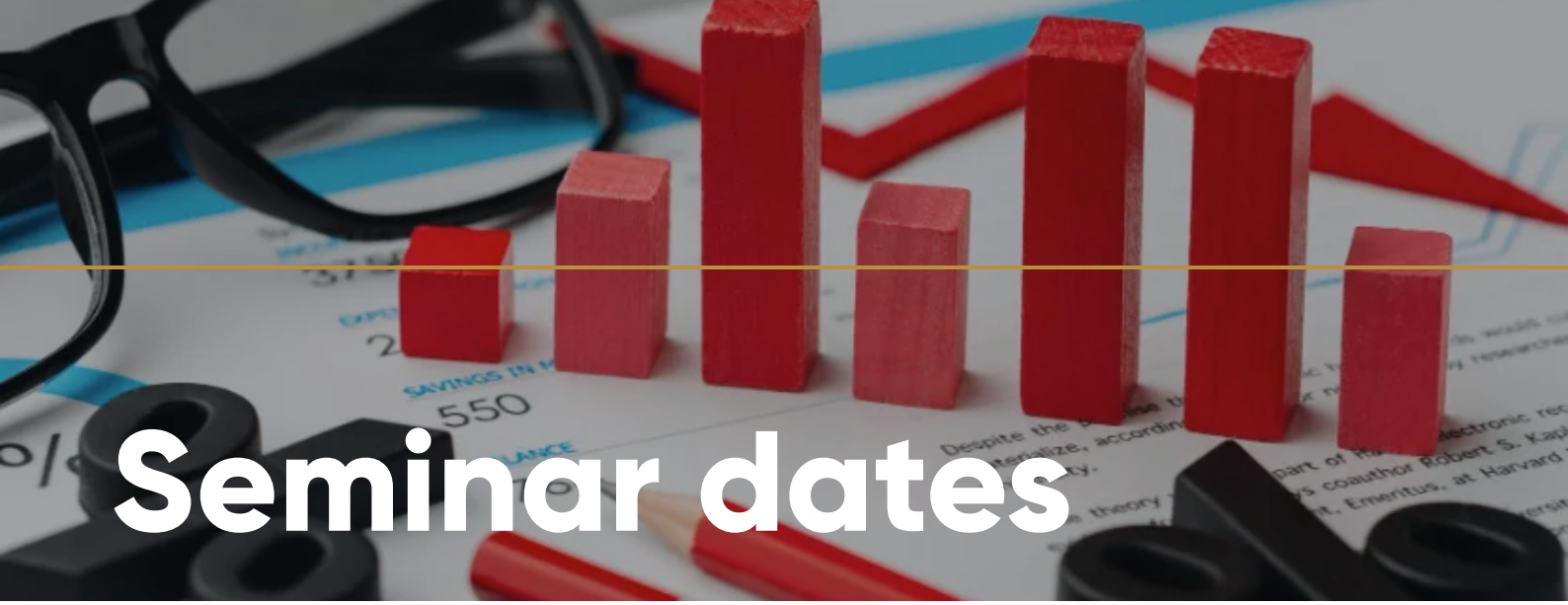
Course outline

• Designing risk questionnaires and assessment tools for oil and gas projects

• Evaluating residual risks and overall project risk exposure

• Preparing comprehensive risk evaluation reports for stakeholders

• Final workshop: Developing an integrated risk management framework for an oil and gas project, including lessons learned and continuous improvement planning



Seminar dates

Available seminar dates

Live dates and pricing for Risk Assessment & Risk Management for Oil & Gas Projects generated from the course details page.

Date	Location	Format	Fee
11 - 15 January 2027	Amsterdam - Netherlands	Classroom	**€3,040.-**
8 - 12 February 2027	London - U.K	Classroom	**€3,360.-**
8 - 12 March 2027	Istanbul - Turkey	Classroom	**€2,240.-**
12 - 16 April 2027	Cape Town - South Africa	Classroom	**€3,600.-**
10 - 14 May 2027	Barcelona - Spain	Classroom	**€2,560.-**
14 - 18 June 2027	Paris - France	Classroom	**€3,600.-**
12 - 16 July 2027	Frankfurt - Germany	Classroom	**€2,720.-**
9 - 13 August 2027	Barcelona - Spain	Classroom	**€2,560.-**
13 - 17 September 2027	Amsterdam - Netherlands	Classroom	**€3,360.-**
11 - 15 October 2027	London - U.K	Classroom	**€3,360.-**
8 - 12 November 2027	Istanbul - Turkey	Classroom	**€2,800.-**
13 - 17 December 2027	Vienna - Austria	Classroom	**€3,920.-**

Live online option	Online delivery is available at €1,850.-.