

MEASURING, ASSESSING & MANAGING RISK IN ENERGY PROJECTS

"Controlling Uncertainty and Enhancing Decision-Making in Energy Sector Projects"

Schedule

Date	Venue	Fees (Face-to-Face)
07 - 09 Sep 2026	Doha, Qatar	USD 2495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Energy projects—spanning oil & gas, power generation, renewables, and infrastructure—are inherently complex and exposed to a wide range of risks, including technical, commercial, regulatory, environmental, and geopolitical uncertainties. Effective risk measurement and management are essential to ensure project viability, profitability, and sustainability.

This intensive 3-day training provides participants with practical frameworks and tools to measure, assess, and manage risks specific to energy projects. The course integrates industry case studies, quantitative and qualitative risk techniques, and structured decision-making approaches to enhance project control and performance across the energy sector.

Objectives

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

- Understand the unique risk profile of energy sector projects
- Identify and categorize technical, commercial, and external risks
- Measure and assess risks using qualitative and quantitative techniques
- Develop effective risk mitigation and response strategies
- Integrate risk management into energy project planning and execution
- Monitor, control, and report project risks throughout the lifecycle
- Improve decision-making under uncertainty in energy projects

Why Attend

- Gain specialized knowledge in energy project risk management
- Learn practical tools tailored to oil & gas, power, and renewable projects
- Improve cost, schedule, and performance predictability
- Reduce exposure to high-impact energy project risks
- Enhance confidence in investment and execution decisions
- Strengthen professional competence in managing energy project risks

Target Audience

This program is designed for:

- Project managers and engineers in energy projects
- Risk management and commercial professionals
- Planning and cost control engineers
- Oil & gas, power, and renewable energy professionals
- Consultants and advisors involved in energy projects
- Decision-makers responsible for project investment and delivery

Individual Benefits

Key competencies that will be developed include:

- In-depth understanding of energy project risk drivers
- Ability to assess and prioritize complex project risks
- Improved analytical and decision-making skills
- Enhanced capability in risk response planning
- Better communication of risks to stakeholders
- Professional growth in energy project risk management

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved predictability and control of energy projects
- Reduced cost overruns and schedule delays
- Enhanced proactive risk identification and mitigation
- Stronger governance and risk-informed decision-making
- Increased stakeholder and investor confidence
- Improved overall project performance and resilience

Instructional Methodology

The course follows a blended learning approach combining theory with practical application:

- Strategy Briefings – Energy project risk frameworks and best practices
- Case Studies – Real-world energy project risk scenarios and failures
- Workshops – Risk identification, assessment, and mitigation exercises
- Simulations – Scenario-based risk evaluation activities
- Peer Exchange – Group discussions and experience sharing
- Tools – Risk registers, heat maps, quantitative models, and templates

MAWA EVENTS

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Course Outline

Detailed 3-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules Coffee Breaks: 09:30 & 11:15 Lunch Buffet: 01:00 – 02:00

Day 1: Risk Identification and Measurement in Energy Projects

Module 1: Energy Project Risk Landscape (07:30 – 09:30)

- Characteristics of energy projects
- Key risk categories: technical, commercial, regulatory, HSE, geopolitical
- Lessons learned from energy project failures

Module 2: Risk Identification Techniques

- Risk breakdown structures for energy projects
- Stakeholder-based and lifecycle-based risk identification
- Workshop: Building an energy project risk register

Module 3: Risk Measurement and Qualitative Assessment

- Probability and impact analysis
- Risk scoring and ranking
- Developing risk heat maps

Day 2: Quantitative Risk Assessment and Decision Support

Module 1: Quantitative Risk Analysis (Overview)

- Cost and schedule risk concepts
- Sensitivity analysis and risk drivers
- Introduction to Monte Carlo simulation

Module 2: Financial and Commercial Risk Assessment

- CAPEX, OPEX, and revenue risks
- Contractual and supply chain risks
- Price volatility and market uncertainty

Module 3: Decision-Making Under Uncertainty

- Risk-adjusted decision-making
- Contingency planning and reserves
- Practical case discussion

Day 3: Risk Response, Monitoring, and Integration

Module 1: Risk Mitigation and Response Strategies

- Avoidance, mitigation, transfer, and acceptance
- Contractual risk allocation
- Developing effective mitigation plans

Module 2: Risk Monitoring and Control

- Risk indicators and early warning signals
- Risk reviews and reporting
- Managing emerging and residual risks

Module 3: Integrating Risk Management & Course Review

- Embedding risk management into project governance
- Lessons learned and continuous improvement
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Key takeaways and action planning

Certification

Participants will receive a Certificate of Completion in Measuring, Assessing & Managing Risk in Energy Projects, validating their knowledge and practical competence in managing uncertainty and risk across the lifecycle of energy sector projects.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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