

RISK MANAGEMENT FOR EPC PROJECTS

“Mastering Risk Management Strategies for Successful EPC Project Delivery”

Schedule

Date	Venue	Fees (Face-to-Face)
16 - 20 Feb 2026	Dubai, UAE	USD 3495 per delegate

Introduction

EPC (Engineering, Procurement, and Construction) projects are highly complex and come with a range of risks that can impact the project's success, timeline, cost, and quality. Effective risk management is essential for navigating the unique challenges posed by these projects and ensuring that all stakeholders remain aligned with the project's goals. From managing supply chain disruptions to dealing with unforeseen technical challenges, having a solid framework in place for identifying, assessing, and mitigating risks can make or break an EPC project.

This 5-day course is designed to equip participants with advanced risk management strategies and tools specifically tailored for EPC projects. The course will cover the entire project lifecycle—from project initiation through to completion—focusing on identifying and managing risks at each stage. Participants will learn how to develop risk management plans, conduct risk assessments, and apply mitigation strategies to ensure that EPC projects are delivered on time, within budget, and with high quality.

Objectives

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

- Understand the specific risks associated with EPC projects and how they differ from other types of projects
- Develop a comprehensive risk management plan that addresses the entire project lifecycle
- Identify, assess, and prioritize risks related to engineering, procurement, and construction phases
- Implement mitigation strategies to reduce the impact of risks on project timelines, costs, and quality
- Monitor and control project risks using effective risk management techniques
- Ensure stakeholder engagement and communication throughout the risk management process
-

Why Attend

- Learn advanced risk management techniques specifically tailored for EPC projects
- Gain practical knowledge in identifying and mitigating risks to ensure project success
- Understand how to develop a risk management strategy for the entire project lifecycle
- Enhance your ability to manage project risks and prevent delays, cost overruns, and quality issues
- Strengthen your stakeholder management skills and ensure alignment throughout the project

Target Audience

This program is designed for:

- Project managers, risk managers, and senior executives involved in EPC projects
- Engineers, procurement specialists, and construction professionals who deal with risk management aspects of EPC projects
- Consultants and advisors working on EPC project risk management
- Anyone involved in project management or risk management who wants to enhance their understanding of risk mitigation in EPC environments
- Contractors, subcontractors, and suppliers who need to understand the risks involved in delivering EPC projects

Individual Benefits

Key competencies that will be developed include:

- Enhanced understanding of EPC-specific risks and their impact on project success
- Mastery in developing risk management strategies and mitigation plans for complex projects
- Proficiency in conducting risk assessments and identifying high-priority risks
- The ability to align risk management with overall project objectives and timelines
- Confidence in managing stakeholder communications related to risk management and project progress

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- More effective risk management across all phases of EPC projects, improving project delivery and outcomes
- Reduced project delays, cost overruns, and quality issues through proactive risk mitigation
- Stronger project decision-making and greater alignment with organizational goals
- Enhanced project governance and reporting, with improved communication on risks and mitigation actions
- A more resilient approach to managing project uncertainties and external challenges

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Key risk management principles and their application in EPC projects
- Case Studies – Real-world examples of risk management challenges and solutions in EPC projects
- Workshops – Practical exercises in developing risk management plans and conducting risk assessments
- Peer Exchange – Group discussions and problem-solving on how to address complex project risks
- Tools – Risk management frameworks, risk assessment matrices, and project monitoring tools

MAWA EVENTS

Address: No. 857, Block A2, Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net



Course Outline

Detailed 5-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 – Introduction to EPC Project Risk Management

- Module 1: Overview of EPC Projects and Their Unique Risks (07:30 – 09:30)
 - What are EPC projects? Understanding the complexity of engineering, procurement, and construction
 - Common risks in EPC projects: technical, financial, contractual, and operational
 - The importance of risk management throughout the project lifecycle
- Module 2: Developing a Risk Management Plan for EPC Projects (09:45 – 11:15)
 - Key components of a risk management plan
 - Setting risk management objectives and scope
 - Stakeholder roles in risk management
- Module 3: Identifying Risks in the EPC Project Lifecycle (11:30 – 01:00)
 - Identifying risks in the engineering phase: design, technical specifications, and approvals
 - Procurement risks: supplier issues, logistics, and procurement delays
 - Construction risks: site management, equipment, and labor
- Module 4: Workshop – Identifying and Categorizing Risks (02:00 – 03:30)
 - Participants work in groups to identify and categorize risks for a sample EPC project
 - Group feedback and discussion on risk prioritization and classification

DAY 2 – Risk Assessment and Evaluation

- Module 5: Risk Assessment Techniques (07:30 – 09:30)
 - Qualitative and quantitative risk assessment techniques
 - Using risk matrices to assess likelihood and impact
 - Risk prioritization methods: risk ranking and probability-impact analysis
- Module 6: Cost and Schedule Risk Analysis (09:45 – 11:15)
 - Assessing cost risks: estimating, budgeting, and controlling costs in EPC projects
 - Schedule risk analysis: critical path, delays, and milestone management
 - Tools for cost and schedule risk management
- Module 7: Contractual and Legal Risks in EPC Projects (11:30 – 01:00)
 - Understanding the legal framework for EPC contracts
 - Managing contractual obligations and risks related to disputes
 - Risk mitigation strategies in contract management
- Module 8: Workshop – Risk Assessment for EPC Projects (02:00 – 03:30)
 - Participants conduct a risk assessment for a case study EPC project using risk matrices and cost/schedule analysis
 - Group presentations and feedback on risk identification and evaluation

DAY 3 – Mitigation Strategies and Risk Control

- Module 9: Risk Mitigation Strategies for EPC Projects (07:30 – 09:30)
 - Developing effective risk mitigation strategies
 - Risk avoidance, reduction, transfer, and acceptance in EPC projects
 - Allocating resources for risk mitigation
- Module 10: Managing Project Risks through Communication and Collaboration (09:45 – 11:15)
 - The role of communication in managing project risks
 -

Building a collaborative risk management culture across teams and stakeholders

- Reporting and monitoring risks throughout the project lifecycle
- Module 11: Implementing Risk Control Measures and Monitoring (11:30 – 01:00)
- Techniques for monitoring risks and controlling risk mitigation plans
- Using performance indicators and KPIs to track risk management progress
- Early warning signs and adapting risk control measures
- Module 12: Workshop – Developing Risk Mitigation Plans (02:00 – 03:30)
- Participants create risk mitigation plans for a sample EPC project
- Group discussion and feedback on proposed mitigation strategies and their effectiveness

DAY 4 – Final Review, Case Study, and Action Plan

- Module 13: Case Study – Successful EPC Risk Management (07:30 – 09:30)
- Reviewing a successful EPC project that applied effective risk management
- Key takeaways and lessons learned
- Identifying risk management best practices for future projects
- Module 14: Developing a Risk Management Action Plan (09:45 – 11:15)
- How to implement risk management strategies in future EPC projects
- Creating an action plan to apply the learned risk management techniques
- Ensuring sustainability of risk management practices
- Module 15: Risk Management and Organizational Alignment (11:30 – 01:00)
- Aligning project risk management with organizational strategy and objectives
- Building a risk-aware culture across the organization
- Integrating risk management into day-to-day project operations
- Module 16: Course Wrap-Up and Q&A (02:00 – 03:30)
- Final Q&A session and group discussion
- Review of key takeaways and next steps in applying risk management techniques
- Certification distribution

Certification

Participants will receive a Certificate of Completion in Risk Management for EPC Projects, validating their expertise in identifying, assessing, and mitigating risks in EPC project environments.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training

Interested in running this course for your team?

Please contact us:

TEL:

+601116373203

EMAIL:

info@mawaevents.net