

RELIABILITY IN CAPITAL PROJECTS & SUPPORTING OPERATIONAL EXCELLENCE

“Enhancing Project Reliability and Operational Efficiency for Long-Term Success”

Schedule

Date	Venue	Fees (Face-to-Face)
12 - 13 Aug 2026	Dubai - UAE	USD 1995 per delegate

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

Introduction

Reliability in capital projects is crucial for minimizing risks and maximizing operational excellence throughout the project lifecycle. This course provides practical insights into how organizations can integrate reliability into every phase of capital project planning, execution, and post-project performance. The 2-day training will cover the importance of reliability in capital projects, from risk management and preventive maintenance to continuous operational improvement, ensuring projects are completed on time, within budget, and with long-term sustainability.

By attending this course, participants will learn effective strategies to enhance project reliability and operational performance, ensuring that capital projects contribute to sustainable business success

Objectives

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

- Understand the principles of reliability in capital projects and their impact on operational success.
- Implement strategies for managing risk and enhancing reliability throughout the project lifecycle.
- Develop effective maintenance and performance monitoring systems post-project completion.
- Apply reliability engineering tools to optimize project outcomes and ensure long-term operational excellence.

Why Attend

- Gain expertise in managing risks and enhancing reliability in capital projects.
- Learn advanced strategies for optimizing project performance and ensuring long-term success.
- Acquire practical tools for integrating reliability principles into project planning and execution.
- Improve decision-making capabilities to ensure the operational success of capital projects.
- Understand how to monitor and improve post-project performance to maintain operational excellence

Target Audience

This program is designed for:

- Project managers and engineers overseeing capital projects.
- Operations managers focused on maintaining high levels of performance in capital assets.
- Reliability engineers responsible for ensuring the reliability of large-scale projects.
- Senior executives involved in project investment and risk management.
- Anyone looking to enhance the reliability and operational efficiency of capital projects.

Individual Benefits

Key competencies that will be developed include:

- Knowledge of reliability engineering principles and their application in capital projects.
- Skills for identifying and mitigating risks in project planning and execution.
- Expertise in continuous improvement strategies for operational excellence.
- Tools for monitoring and optimizing performance after project completion

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced project reliability, ensuring timely and cost-effective completion.
- Improved risk management techniques to prevent operational failures.
- Better post-project performance monitoring for ongoing success.
- Increased alignment between project goals and organizational operational objectives.
- Ability to create a culture of reliability and operational excellence within the organization.

Instructional Methodology

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

- Strategy Briefings - Introduction to the key principles of reliability engineering and operational excellence.
- Case Studies - Real-world examples and lessons learned from successful projects.
- Workshops - Practical exercises focused on risk management, reliability analysis, and performance optimization.
- Peer Exchange - Interactive group discussions on the challenges and solutions related to project reliability.
- Tools - Introduction to tools for project monitoring, reliability assessments, and post-project optimization.

Course Outline

Detailed 2-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 Reliability in Capital Projects

- Module 1: Fundamentals of Reliability Engineering (07:30 – 09:30)
- Overview of reliability principles and their relevance to capital projects.
- The role of reliability engineering in risk management and operational success.
- Key reliability metrics and how to measure them during capital project planning.
- Module 2: Risk Management in Capital Projects (09:30 – 11:15)
- Identifying risks specific to capital projects and understanding their impact.
- Applying risk assessment and mitigation strategies in project planning.
- Techniques for managing risks during project execution and beyond.

Day 2: Post-Project Operations and Continuous Improvement

- Module 3: Post-Project Performance Monitoring (07:30 – 09:30)
- Tools for tracking and measuring the success of capital projects post-completion.
- Key performance indicators (KPIs) for operational efficiency.
- Techniques for analyzing project data to optimize future projects.
- Module 4: Continuous Improvement and Operational Excellence (09:30 – 11:15)
- Implementing continuous improvement processes for long-term operational success.
- Strategies for enhancing reliability through Lean and Six Sigma methodologies.
- Case studies on organizations that achieved operational excellence through reliability management.

Certification

Participants will receive a Certificate of Completion in Reliability in Capital Projects & Supporting Operational Excellence, validating their knowledge and skills in enhancing capital project reliability and driving operational excellence in their organizations.

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