

DECISION ANALYSIS FOR OPERATIONS AND MAINTENANCE PROFESSIONALS

"Making Smarter Operational Decisions with Data-Driven Insights"

Schedule

Date	Venue	Fees (Online)
08 Dec 2026	Online	USD 450 per delegate

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

Introduction

Effective decision-making is a critical skill for operations and maintenance professionals, who must balance safety, efficiency, and cost considerations in dynamic environments. This 1-day online training introduces structured decision analysis techniques, enabling participants to evaluate alternatives, assess risks, and select optimal solutions for operational challenges.

The course combines theoretical insights with practical examples and exercises, allowing participants to apply decision-making frameworks to real-world scenarios. By the end of the session, attendees will be equipped to make more informed, data-driven decisions that enhance operational performance and reliability.

Objectives

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

- Understand the principles and frameworks of decision analysis.
- Evaluate operational alternatives using structured techniques.
- Apply risk assessment and probability analysis to maintenance decisions.
- Optimize resources and prioritize operational actions.
- Make data-driven decisions that improve efficiency and safety.

Why Attend

- Gain practical tools to improve operational decision-making.
- Learn structured techniques for evaluating alternatives.
- Enhance risk management and safety outcomes.
- Reduce operational costs through smarter decisions.
- Network with professionals and share best practices.

Target Audience

This program is designed for:

- Operations managers and supervisors
- Maintenance engineers and planners
- Reliability and asset management professionals
- Industrial engineers and production staff
- Safety and compliance officers

Individual Benefits

Key competencies that will be developed include:

- Ability to structure and analyze operational decisions
- Skills in risk assessment and probability analysis
- Competence in evaluating alternatives and optimizing outcomes
- Enhanced problem-solving capabilities for complex operational scenarios
- Improved confidence in making data-driven decisions

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved operational efficiency and decision quality
- Reduced downtime and maintenance costs
- Enhanced safety and risk management in operations
- Better allocation of resources and prioritization of activities
- Strengthened organizational resilience and reliability

Instructional Methodology

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

- Strategy Briefings - Overview of decision analysis frameworks and principles
- Case Studies - Real-world examples of operational and maintenance decisions
- Workshops - Hands-on exercises to apply decision analysis techniques
- Peer Exchange - Group discussions on challenges and best practices
- Tools - Templates for decision matrices, risk evaluation, and prioritization

Course Outline

Detailed 1-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

Module 1: Introduction to Decision Analysis (07:30 – 09:30)

- Principles of structured decision-making
- Importance of data-driven choices in operations and maintenance
- Decision-making challenges and common pitfalls

Module 2: Risk and Probability Assessment (09:45 – 11:15)

- Evaluating uncertainties and potential impacts
- Techniques for assessing probability and risk
- Applying risk assessment to operational decisions

Module 3: Decision-Making Tools and Techniques (11:30 – 01:00)

- Decision trees, cost-benefit analysis, and prioritization matrices
- Selecting optimal alternatives based on objectives and constraints

Module 4: Practical Workshop and Q&A (02:00 – 03:30)

- Hands-on exercises with real-world operational scenarios
- Interactive discussion, group problem-solving, and lessons learned

Certification

Participants will receive a Certificate of Completion in Decision Analysis for Operations and Maintenance Professionals, validating their expertise in structured decision-making, risk assessment, and data-driven operational planning.

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