

Decision Analysis for Operation & Maintenance Professionals

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London (UK)

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Day 2: Decision Trees and Probabilistic Modeling

- Building decision trees for maintenance alternatives
- Assessing probabilities under operational uncertainty
- Calculating expected values for equipment-related decisions
- Conducting sensitivity analysis in O&M scenarios

Day 3: Risk Assessment and Management in O&M

- Identifying operational and maintenance risks
- Quantitative risk analysis techniques
- Developing effective risk mitigation strategies
- Embedding risk considerations into daily decision processes

Day 4: Value of Information in Maintenance Decisions

- Understanding perfect and imperfect information
- Calculating the value of additional maintenance data
- Applying value of information to condition monitoring
- Designing effective information-gathering strategies

Day 5: Advanced Topics and Practical Applications

- Multi-criteria decision analysis for complex O&M environments
- Facilitating group decision-making within operational teams
- Recognizing and managing cognitive biases in maintenance decisions
- Case studies and applied real-world exercises

Individual Impact

Participants will leave the program with:

- Stronger confidence in making structured, data-driven maintenance decisions.
- Enhanced capability to manage operational risks proactively.
- Improved efficiency in allocating maintenance resources.
- Greater ability to justify O&M strategies and investments to management.

Organizational Impact

Organizations will benefit from:

- More consistent and transparent decision-making processes.
- Reduced operational risk and unplanned downtime.
- Better prioritization of maintenance activities and investments.
- Improved alignment between operational objectives and resource utilization.

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A graphic of a chessboard with several chess pieces (a king, a queen, and a pawn) in the foreground, set against a background of concentric circles.

Training Methodology

- Instructor-led sessions combining analytical frameworks with practical examples
- Hands-on exercises in decision tree construction and risk modeling
- Scenario-based workshops reflecting real O&M challenges
- Group discussions to strengthen collaborative decision-making skills

Beyond the Course

By the end of the five days, participants will be equipped to:

- Apply structured decision analysis methods in daily O&M activities.
- Integrate risk and uncertainty into maintenance planning with clarity.
- Optimize information use to support reliability and performance goals.
- Contribute to smarter, more defensible operational decision-making across the organization.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn nearby. The board is checkered, and there are concentric circles in the background.