Decision Analysis for Operation & Maintenance Professionals

Oil & Gas Engineering
Prague (Czech)
13 - 17 Oct 2025

UK Traininig
PARTNER

Decision Analysis for Operation & Maintenance Professionals

Ref: 321585_141321 **Date:** 13 - 17 Oct 2025 **Location:** Prague (Czech) **Fees:** 4400 **Euro**

Course Description

This intensive 5-day course equips operation and maintenance professionals with advanced decision analysis skills. Participants will learn to apply structured decision-making techniques, utilize decision trees, and incorporate risk assessment in their daily operations. The course combines theoretical concepts with practical applications, ensuring immediate value in the workplace.

Learning Objectives

- Apply decision analysis frameworks to complex O&M scenarios
- Construct and interpret decision trees for operational choices
- Integrate risk assessment techniques into maintenance planning
- Utilize probabilistic modeling for equipment reliability analysis
- Implement value of information concepts in maintenance strategies

Course Modules

Day 1: Foundations of Decision Analysis in O&M

- Introduction to decision analysis principles
- Structuring O&M decisions
- Framing problems in maintenance contexts
- Decision quality framework for operations

Day 2: Decision Trees and Probabilistic Modeling

- Constructing decision trees for maintenance choices
- Probability assessment in operational uncertainties
- Expected value calculations for equipment decisions
- Sensitivity analysis in O&M contexts

Day 3: Risk Assessment and Management in O&M

- Risk identification in operational environments
- Quantitative risk analysis techniques
- Risk mitigation strategies for maintenance
- Integrating risk in decision-making processes

Day 4: Value of Information in Maintenance Decisions

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- Concepts of perfect and imperfect information
- Calculating value of information for maintenance data
- Applying VOI to condition monitoring decisions
- Information gathering strategies in O&M

Day 5: Advanced Topics and Practical Applications

- Multi-criteria decision analysis for O&M
- Group decision-making in operational teams
- Cognitive biases in maintenance decisions
- Case studies and real-world applications

Practical Wins for Participants

- Improved ability to make data-driven maintenance decisions
- Enhanced risk management in daily operations
- Increased efficiency in resource allocation for maintenance
- Better justification of O&M investments to management

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