

# Decision Analysis for Operation & Maintenance Professionals

Oil, Gas & Energy Industry Specialization  
Madrid (Spain)  
20 - 24 Oct 2025

UK Traininig

# PARTNER



## Decision Analysis for Operation & Maintenance Professionals

**Ref:** 321585\_141316 **Date:** 20 - 24 Oct 2025 **Location:** Madrid (Spain) **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

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The text 'UK Training PARTNER' is overlaid on the board.

UK Training  
**PARTNER**

- 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

## Blackbird training cities



Accra (Ghana)

Amman (Jordan)

Amsterdam (Netherlands)

Annecy (France)

Baku (Azerbaijan)

Bali (Indonesia)

Bangkok (Thailand)

Bangkok (Thailand)

Barcelona (Spain)

Batumi (Georgia)

Beijing (China)

Beirut (Lebanon)

Berlin (Germany)

Birmingham (UK)

Bordeaux (France)

Boston, Massachusetts (USA)

Brussels (Belgium)

Cairo (Egypt)

Cape Town (South Africa)

Casablanca (Morocco)

Cascais (Portugal)

Copenhagen (Denmark)

Doha (Qatar)

Dubai (UAE)

Düsseldorf (Germany)

UK Training  
**PARTNER**



## Blackbird Training Category



Human Resources Management



Audit & Quality



Finance, Economics & Markets



Marketing, Sales & Negotiation



Secretary & Admin



Governance, Risk, & Compliance (GRC)



Project Management



Technology & Digital Transformation



Procurement, Contracts & Supply Chain



Leadership & Management Development



Professional Skills & Career Enhancement



Oil, Gas & Energy Industry Specialization



Healthcare & Safety Management



Telecom Engineering



Hospital Management



Customs Management & Global Trade Compliance



Aviation, Transportation & Logistics



Board Members & C-Suite Development



Agile and Refinement



Business Strategy & Competitive Analysis

Operational Risk Management



## Blackbird training Clients



MANNAI Trading  
Company WLL,  
Qatar



Alumina Corporation  
Guinea



Booking.com  
Netherlands



Oxfam GB International  
Organization,  
Yemen



Capital Markets  
Authority,  
Kuwait



Waltersmith Petroman Oil Limited  
Nigeria



Qatar National Bank  
(QNB),  
Qatar



Qatar Foundation,  
Qatar



AFRICAN UNION ADVISORY  
BOARD ON CORRUPTION,  
Tanzania



KFAS  
Kuwait



Reserve Bank of  
Malawi,  
Malawi



Central Bank of Nigeria  
Nigeria



Ministry of Interior  
Kingdom of Saudi Arabia  
KSA



Mabruk Oil Company  
Libya



Saudi Electricity  
Company,  
KSA



BADAN PENGELOLA  
KEUANGAN Haji,  
Indonesia



NATO  
Italy



ENI CORPORATE  
UNIVERSITY,  
Italy



Gulf Bank  
Kuwait



General Organization for  
Social Insurance  
KSA



Defence Space Administration  
Nigeria



National Industries  
Group (Holding),  
Kuwait



Hamad Medical  
Corporation,  
Qatar



USAID  
Pakistan



STC Solutions,  
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS  
UN.



Authority for

UK Training  
**PARTNER**



**LONDON TRAINING PROVIDER**



[www.blackbird-training.com](http://www.blackbird-training.com)



[training@blackbird-training.com](mailto:training@blackbird-training.com)



+44 7480 775526 / +44 7401 177335