

Predictive Maintenance Planning

Manchester (UK)

10 - 14 March 2025

UK Training

PARTNER



Predictive Maintenance Planning

Code: QM28 From: 10 - 14 March 2025 City: Manchester (UK) Fees: 4400 Pound

Introduction

This training program provides a comprehensive introduction to Predictive Maintenance PdM, an advanced maintenance approach leveraging data-driven insights to predict and prevent equipment failures. The course emphasizes the principles, tools, and techniques essential for implementing an effective predictive maintenance strategy. Participants will explore predictive analytics, sensor technologies, and condition-monitoring tools to plan and optimize maintenance schedules, minimize unplanned downtime, and extend equipment lifespan.

Course Course

By completing this course, participants will:

- Grasp the fundamentals of predictive maintenance and how it contrasts with traditional maintenance approaches.
- Apply predictive maintenance techniques using condition-monitoring tools and data analytics.
- Design a predictive maintenance plan that integrates with existing workflows.
- Utilize software and tools to enhance maintenance efficiency and reduce costs.
- Evaluate and refine predictive maintenance efforts for continuous improvement.

Course Outlines

Day 1: Foundations of Predictive Maintenance

- Introduction to PdM: Definition, principles, and benefits.
- Comparative Maintenance Strategies: Differences between predictive, preventive, and corrective maintenance, and their applications.
- Data as a Foundation: Importance of data collection, sensors, and condition monitoring in PdM.
- Maintenance Strategy Evolution: A historical overview of maintenance practices.
- Key PdM Technologies: Overview of sensors, IoT, vibration analysis, thermography, and ultrasound testing.

Day 2: Tools and Techniques for Predictive Maintenance

- Condition Monitoring Technologies: Tools such as vibration sensors, infrared thermography, and oil analysis.
- Data Acquisition Methods: Techniques for collecting machine and system data for PdM analysis.
- Selecting PdM Techniques: Choosing suitable methods based on equipment types and potential failure modes.
- Data Analysis Basics: Interpreting data trends to predict failures using statistical and machine learning methods.
- System Integration: Incorporating PdM tools with CMMS and ERP systems for seamless operation.

UK Training
PARTNER

A decorative graphic in the bottom right corner shows a chessboard with several chess pieces (a king, a pawn, and a knight) on it. The text 'UK Training PARTNER' is overlaid on the board.

Day 3: Crafting a Predictive Maintenance Plan

- Asset Criticality Assessment: Identifying high-priority assets for PdM.
- Strategy Development: Creating a roadmap for implementing PdM.
- Scheduling Maintenance Activities: Establishing schedules informed by predictive insights.
- Hybrid Maintenance Approaches: Combining PdM with preventive maintenance for optimal results.
- Risk and Failure Mode Management: Analyzing risks and failure modes to support PdM planning.

Day 4: Advanced Software and Analytics for PdM

- Overview of PdM Software: Features and advantages of predictive maintenance software solutions.
- CMMS Integration: Merging predictive data with CMMS for streamlined processes.
- Predictive Models and Analytics: Utilizing analytics tools to predict failures and optimize operations.
- Automation in PdM: Enhancing PdM efficiency through automation.
- Case Studies: Real-world examples of successful PdM applications across industries.

Day 5: Performance Evaluation and Continuous Improvement

- KPIs for Success: Key metrics for evaluating predictive maintenance performance, such as uptime and cost efficiency.
- Program Performance Monitoring: Conducting audits and reviews to assess PdM effectiveness.
- Root Cause Analysis RCA: Investigating failure causes to refine PdM strategies.
- Driving Continuous Improvement: Implementing feedback loops to enhance PdM systems.
- Final Project and Review: Participants will develop a predictive maintenance plan, applying the course concepts to a real-world or hypothetical scenario.

Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)
(Netherlands)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



Barcelona (Spain)



Munich (Germany)



Geneva (Switzerland)



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels (Belgium)



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich (Switzerland)



Manchester (UK)



Milan (Italy)



Blackbird Training Cities

USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

Africa



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney (Australia)



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Pulau Ujong (Singapore)



Jakarta (Indonesia)



Amman (Jordan)



Beirut (Lebanon)

UK Training
PARTNER

Blackbird Training Cities

Asia



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



UK Training
PARTNER

Blackbird Training Categories

Management & Admin

Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



 International House 185 Tower Bridge
Road London SE1 2UF United Kingdom

 +44 7401 1773 35
+44 7480 775526

 Sales@blackbird-training.com

 www.blackbird-training.com

UK Training
PARTNER

