

Maintenance Optimization Strategy

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Istanbul (Turkey)

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R20268814 | 2288626 | Location: Istanbul (Turkey) **Fees:** 4200 GBP

Why This Course

Maintenance excellence is not just about keeping equipment running — it's about strategically managing assets to maximize performance, reliability, and value.

In modern industries, maintenance optimization combines engineering analysis, data-driven decision-making, and continuous improvement methodologies to minimize downtime while improving safety and efficiency.

The Maintenance Optimization Strategy program provides participants with the frameworks, analytical tools, and leadership skills needed to design and implement proactive maintenance programs.

It bridges reliability-centered maintenance RCM, predictive analytics, and asset lifecycle management, empowering professionals to align maintenance activities with organizational goals and operational risks.

Through practical workshops, real-world case studies, and simulations, participants will learn how to develop optimized maintenance strategies that enhance reliability, reduce costs, and extend asset life.

What You'll Learn and Practice

By joining this program, you will:

- Understand the principles, objectives, and evolution of maintenance strategies.
- Learn to design risk-based and reliability-centered maintenance RCM programs.
- Apply data analytics and condition monitoring to optimize maintenance decisions.
- Develop frameworks for preventive, predictive, and proactive maintenance.
- Integrate maintenance optimization with ISO 55000 and asset management systems.
- Analyze maintenance costs, performance metrics, and ROI.
- Improve planning, scheduling, and resource allocation efficiency.
- Build a roadmap for maintenance excellence and continuous improvement.

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

The Program Flow

Day 1: The Strategic Role of Maintenance

- Maintenance as a value creator in asset-intensive industries.
- Evolution from reactive to predictive maintenance paradigms.
- The link between maintenance, reliability, and operational excellence.
- Maintenance maturity assessment and benchmarking best practices.
- Case study: How leading organizations transformed maintenance into a strategic advantage.

Day 2: Maintenance Strategy Design and Frameworks

- Principles of reliability-centered maintenance RCM and total productive maintenance TPM.
- Selecting the right maintenance mix — reactive, preventive, predictive, and proactive.
- Criticality assessment and asset prioritization for maintenance planning.
- Failure mode and effects analysis FMEA and risk-based maintenance.
- Workshop: Developing an optimized maintenance strategy for a key production asset.

Day 3: Predictive Maintenance and Digital Tools

- Condition-based maintenance using vibration, thermal, and oil analysis.
- Integrating IoT, sensors, and machine learning for predictive insights.
- Data-driven decision-making — using CMMS and EAM systems effectively.
- Building digital dashboards for maintenance performance tracking.
- Simulation: Implementing a predictive maintenance plan using real-time data.

Day 4: Cost Optimization, Scheduling, and Performance Management

- Maintenance budgeting and lifecycle cost optimization.
- Balancing availability, reliability, and cost objectives.
- Planning, scheduling, and resource optimization techniques.
- Key performance indicators KPIs for maintenance excellence MTBF, MTTR, OEE.
- Group exercise: Creating a maintenance performance scorecard for your organization.

Day 5: Continuous Improvement and Maintenance Excellence

- Auditing and continuous improvement frameworks for maintenance systems.
- Root cause analysis RCA and reliability growth programs.
- Aligning maintenance optimization with ESG and sustainability goals.
- Building a culture of reliability, safety, and accountability.
- Final project: Developing a comprehensive Maintenance Optimization Strategy roadmap.

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.

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Individual Impact

- Gain mastery in designing and implementing optimized maintenance programs.
- Strengthen analytical, leadership, and decision-making skills.
- Build confidence in leveraging technology and data for reliability improvement.
- Learn to balance cost, performance, and risk in maintenance decisions.
- Position yourself as a Maintenance Optimization Leader driving operational excellence.

Work Impact

- Improve equipment reliability, uptime, and asset utilization.
- Reduce maintenance costs through predictive and risk-based strategies.
- Strengthen safety, compliance, and sustainability performance.
- Enhance operational efficiency through optimized planning and execution.
- Build a data-driven maintenance culture aligned with long-term organizational goals.

Training Methodology

This program combines engineering analysis, strategic frameworks, and applied exercises to ensure practical mastery and measurable impact.

Learning methods include:

- Case studies from global manufacturing, energy, and infrastructure sectors.
- Hands-on workshops in RCM, FMEA, and predictive maintenance modeling.
- Simulations for maintenance planning and optimization scenarios.
- Group discussions and leadership development sessions.
- Tools, templates, and dashboards for a real-world maintenance application.

Beyond the Course

Upon completion, participants will be equipped to develop, implement, and sustain optimized maintenance strategies that drive reliability, efficiency, and long-term performance.

Graduates of this program will emerge as Maintenance Optimization Professionals — capable of integrating technology, risk management, and strategy to lead world-class maintenance excellence.

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

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