Predictive Maintenance Planning

13 – 17 December 2026
Manama (Bahrain)



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Ref: 3254579_314167 **Date:** 13 – 17 December 2026 **Location:** Manama (Bahrain) **Fees:** 4200 GBP

Introduction

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

By integrating predictive maintenance with preventive maintenance plans, organizations can enhance their maintenance efficiency, ensure preventive maintenance compliance, and achieve significant cost savings. Understanding the concept of preventive maintenance will allow businesses to balance reactive and preventive maintenance, ensuring long-term asset reliability.

Course Objectives

By completing this course, participants will:

- Grasp the fundamentals of predictive maintenance and how it contrasts with reactive and preventive maintenance.
- Apply predictive maintenance techniques using condition-monitoring tools and data analytics.
- Design a predictive maintenance plan that aligns with preventive maintenance procedures.
- Utilize software and tools for preventive maintenance optimization and cost reduction.
- Evaluate and refine preventive maintenance solutions for continuous improvement.



Course Outlines

Day 1: Foundations of Predictive Maintenance

- Introduction to Predictive Maintenance PdM: Definition, principles, and benefits.
- Comparing predictive maintenance with preventive maintenance plans and corrective maintenance.
- Understanding preventive maintenance benefits and their role in reliability.
- The purpose of preventive maintenance is to minimize failures and optimize performance.
- Key PdM technologies: Sensors, IoT, vibration analysis, thermography, and ultrasound testing.

Day 2: Tools and Techniques for Predictive Maintenance

- Overview of preventive maintenance requirements and compliance standards.
- Building preventive maintenance into predictive maintenance strategies.
- Condition monitoring technologies: Vibration sensors, infrared thermography, and oil analysis.
- Selecting PdM techniques based on asset types and potential failure modes.
- Integrating predictive maintenance solutions with preventive maintenance training.



Day 3: Crafting a Predictive Maintenance Plan

- Asset criticality assessment: Identifying high-priority assets for PdM.
- Strategy development: Establishing a roadmap that includes comprehensive preventive maintenance.
- Building preventive maintenance plan into PdM frameworks.
- Combining predictive maintenance with preventive maintenance agreements.
- Managing risks and failure modes to enhance asset reliability.

Day 4: Advanced Software and Analytics for PdM

- Overview of predictive maintenance software and its integration with preventive maintenance solutions.
- Using CMMS and ERP systems for predictive maintenance scheduling.
- Understanding predictive models and preventive maintenance compliance standards.
- Enhancing PdM efficiency through automation and AI-driven analytics.
- Case studies of predictive and preventive maintenance success across industries.



Day 5: Performance Evaluation and Continuous Improvement

- Key KPIs for preventive maintenance optimization and PdM effectiveness.
- Program performance monitoring: Conducting audits and reviews.
- Root Cause Analysis RCA to refine building preventive maintenance plans.
- Implementing feedback loops for continuous improvement in predictive maintenance.
- Final project: Developing a predictive maintenance plan incorporating preventive maintenance procedures.

Why Attend this Course: Wins & Losses!

- Gain in-depth knowledge of predictive maintenance and its synergy with preventive maintenance plans.
- Learn how preventive maintenance training enhances maintenance workforce efficiency.
- Master preventive maintenance optimization techniques to reduce costs and improve asset lifespan.
- Develop expertise in leveraging preventive maintenance solutions for maximum reliability.
- Improve risk management by balancing reactive and preventive maintenance approaches.

Conclusion

This course is essential for professionals looking to master predictive maintenance while strengthening their preventive maintenance planning capabilities. By integrating preventive maintenance agreements with data-driven predictive maintenance solutions, organizations can enhance operational efficiency, extend equipment lifespan, and reduce maintenance costs.

Enroll now and transform your maintenance strategy with cutting-edge predictive insights!

