

CERTIFICATE IN PREVENTIVE AND PREDICTIVE MAINTENANCE

"Transform Maintenance from Reactive to Proactive — Minimize Failures, Maximize Asset Reliability."

Schedule

Venue (In-house)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** Face-to-Face & Online Training, In-House Training

Introduction

In today's competitive industrial environment, downtime and unexpected equipment failures can result in significant production losses, safety hazards, and increased operational costs. Preventive and Predictive Maintenance (PPM) strategies are essential tools that enable organizations to move beyond reactive maintenance and achieve optimal equipment performance and reliability.

The Certificate in Preventive and Predictive Maintenance course provides a comprehensive framework for developing maintenance programs that utilize time-based, condition-based, and data-driven strategies. Participants will gain the skills to implement maintenance planning, reliability-centered techniques, and predictive technologies such as vibration analysis, thermography, oil analysis, and ultrasound inspection.

This course bridges the gap between maintenance theory and real-world application—helping professionals create proactive systems that extend asset life, reduce costs, and improve safety and efficiency across operations.

Objectives

By the end of this course, participants will be able to:

- Understand the principles and benefits of preventive and predictive maintenance.
- Develop structured maintenance programs that align with organizational goals.
- Use reliability and risk-based tools for equipment maintenance planning.
- Apply condition monitoring technologies to detect early signs of failure.
- Analyze maintenance data to optimize scheduling and resource allocation.
- Integrate PPM practices into Computerized Maintenance Management Systems (CMMS).
- Implement performance metrics to measure maintenance effectiveness.

Why Attend

Maintenance excellence is no longer about fixing problems — it's about preventing them before they occur. This training equips participants with the latest tools, analytical techniques, and technologies to forecast failures, improve asset reliability, and reduce unplanned downtime. Whether you manage heavy equipment, manufacturing systems, or utilities, this program provides the skills to transform your maintenance operations into a proactive, performance-driven function.

Target Audience

This course is suitable for:

- Maintenance Managers and Supervisors
- Reliability Engineers
- Maintenance Planners and Schedulers
- Mechanical, Electrical, and Industrial Engineers
- Production and Operations Managers
- Asset and Facilities Managers
- Technicians involved in maintenance and equipment reliability

Individual Benefits

- Gain a deep understanding of preventive and predictive maintenance concepts.
- Learn to analyze equipment data and predict potential failures.
- Improve decision-making using data-driven maintenance planning.
- Increase your technical and professional value in reliability-focused roles.
- Enhance safety and operational consistency in your workplace.
- Develop the confidence to implement and manage PPM programs effectively.

Organizational Benefits

- Reduce equipment downtime and maintenance costs.
- Extend asset life and improve plant reliability.
- Optimize resource utilization through efficient scheduling.
- Strengthen safety and compliance across operations.
- Enable data-based decision-making and continuous improvement.
- Build a proactive maintenance culture within the organization.

Instructional Methodology

The training adopts a hands-on, results-oriented approach through:

- Interactive lectures and guided technical sessions
- Real-world case studies from industrial environments
- Demonstrations of predictive maintenance tools and software
- Group exercises in maintenance planning and failure analysis
- Simulation workshops for condition-based maintenance decision-making
- Continuous feedback and knowledge-sharing sessions

Course Outline

- Module 1: Introduction to Preventive and Predictive Maintenance Principles
- Module 2: Maintenance Strategy Development and Reliability Concepts
- Module 3: Planning, Scheduling, and Work Control Systems
- Module 4: Condition Monitoring Technologies (Vibration, Thermography, Oil Analysis, Ultrasound)
- Module 5: Data Collection, Trend Analysis, and Failure Prediction
- Module 6: Root Cause Failure Analysis (RCFA) and Risk Assessment
- Module 7: Integrating PPM into CMMS and Digital Maintenance Systems
- Module 8: Performance Measurement and Key Maintenance KPIs
- Module 9: Building a Proactive Maintenance Culture
- Module 10: Capstone Project – Designing a Preventive and Predictive Maintenance Plan

Certification

Upon successful completion, participants will receive a Certificate in Preventive and Predictive Maintenance, recognizing their professional competence in developing and executing proactive maintenance programs that enhance equipment reliability, safety, and operational excellence.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training

Interested in running this course for your team?

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