MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

CERTIFICATE IN PREVENTIVE AND PREDICTIVE MAINTENANCE

"Building Reliability, Reducing Downtime, and Maximizing Equipment Performance Through Planned Maintenance Strategies."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

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

Introduction

Effective maintenance strategies are critical to achieving operational reliability, cost control, and long-term asset performance. Preventive and Predictive Maintenance (PPM) are two essential components of a proactive maintenance culture that aims to minimize unexpected failures and optimize equipment life.

This Certificate in Preventive and Predictive Maintenance course provides participants with a comprehensive understanding of maintenance planning, scheduling, and execution techniques. It focuses on the development and implementation of preventive maintenance programs and the use of predictive technologies such as vibration analysis, thermography, oil analysis, and condition monitoring to detect potential failures before they occur.

Participants will learn how to design and apply maintenance programs that improve equipment reliability, safety, and performance across industrial environments.

Objectives

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

- Understand the concepts and differences between preventive and predictive maintenance
- Develop and implement effective preventive maintenance programs
- Apply predictive maintenance tools such as vibration monitoring, thermography, and oil analysis
- Analyze maintenance data and identify early warning signs of equipment failure
- Plan maintenance schedules based on reliability and condition data
- Reduce maintenance costs through proactive maintenance strategies
- Improve communication and coordination between maintenance and operations teams
- Enhance safety, quality, and compliance through structured maintenance planning

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Why Attend

Unplanned equipment failures can result in costly downtime and production loss. This course equips maintenance and reliability professionals with the practical tools and techniques needed to prevent such incidents.

By attending, you'll learn how to transition from reactive maintenance to a predictive and data-driven approach that ensures maximum uptime, reliability, and efficiency.

Target Audience

This course is suitable for:

- Maintenance Engineers and Supervisors
- Reliability and Asset Management Professionals
- Maintenance Planners and Schedulers
- Operations and Production Managers
- Plant and Facility Engineers
- Technical and Maintenance Staff in Industrial Operations

Individual Benefits

- Gain practical skills in planning and executing preventive maintenance programs
- Learn how to use predictive tools for early fault detection
- Improve your ability to interpret maintenance data and performance indicators
- Enhance your career in maintenance, reliability, and plant engineering
- Develop confidence in decision-making for maintenance optimization
- Strengthen your technical understanding of modern maintenance approaches

Organizational Benefits

- Increase equipment uptime and operational efficiency
- Reduce maintenance and repair costs through proactive management
- Improve equipment reliability and extend asset life
- Enhance workplace safety and compliance standards
- Implement data-driven maintenance for performance improvement
- Foster a preventive culture across maintenance and production teams

Instructional Methodology

The course uses a highly interactive and applied approach that includes:

- Instructor-led sessions and technical presentations
- Practical examples and industry case studies
- Group activities on maintenance planning and scheduling
- Demonstrations of predictive maintenance tools and techniques
- Hands-on exercises and data analysis
- Continuous feedback and progress evaluations

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Course Outline

Module 1: Introduction to Preventive and Predictive Maintenance Concepts

Module 2: Maintenance Strategies – Reactive, Preventive, and Predictive Approaches

Module 3: Developing a Preventive Maintenance Program

Module 4: Scheduling, Planning, and Work Order Management

Module 5: Predictive Maintenance Tools – Vibration, Thermography, Ultrasonic, and Oil Analysis

Module 6: Condition Monitoring and Data Collection Techniques

Module 7: Maintenance Performance Indicators and Reliability Metrics

Module 8: Root Cause Analysis and Failure Prevention

Module 9: Cost Control and Optimization in Maintenance Operations

Module 10: Capstone Project – Designing a Preventive and Predictive Maintenance Plan

Certification

Upon successful completion, participants will receive the Certificate in Preventive and Predictive Maintenance, recognizing their ability to design and manage proactive maintenance programs that enhance equipment reliability and reduce operational risks.

This certification demonstrates technical competence and commitment to modern maintenance excellence practices.

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? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**