

€ TRAINING

Certified in Preventive and Predictive
Maintenance CPPM





Certified in Preventive and Predictive Maintenance CPPM

Introduction:

This program is designed to prepare participants for the certification exam only.

This training program is designed to provide participants with the skills and knowledge required for certification in preventive and predictive maintenance PPM. It empowers participants to implement maintenance strategies that reduce equipment downtime, improve asset reliability, and increase operational efficiency, ensuring long-term asset performance.

Program Objectives:

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

- Understand the principles of preventive and predictive maintenance.
- Develop and implement effective PPM programs.
- Use predictive maintenance technologies to monitor equipment health.
- Ensure compliance with industry standards and best practices in maintenance.
- Prepare for the certification exam.

Target Audience:

- Maintenance Managers.
- Reliability Engineers.
- Maintenance Technicians.
- Operations Managers.
- Plant Managers.

Program Outline:

Unit 1:

Introduction to Preventive and Predictive Maintenance:

- Understanding the key concepts of preventive and predictive maintenance.

- Differences between corrective, preventive, and predictive maintenance.
- Benefits of implementing PPM programs in industrial settings.
- The role of PPM in increasing asset reliability and reducing costs.
- Aligning maintenance strategies with operational goals.

Unit 2:

Developing an Effective Preventive Maintenance Program:

- Steps to design and implement a preventive maintenance plan.
- Identifying critical equipment and developing maintenance schedules.
- Documentation and record-keeping for preventive maintenance activities.
- Establishing key performance indicators KPIs for maintenance success.

Unit 3:

Predictive Maintenance Technologies and Applications:

- Overview of predictive maintenance technologies: vibration analysis, thermography, and oil analysis.
- Using sensors and data collection systems for real-time equipment monitoring.
- Applying machine learning and AI in predictive maintenance.
- Integrating predictive maintenance with enterprise asset management EAM systems.
- Ensuring accurate interpretation of predictive maintenance data.

Unit 4:

Data Analysis and Failure Prevention:

- Analyzing maintenance data to predict equipment failures.
- Root cause analysis and failure mode analysis FMEA in predictive maintenance.
- Identifying trends and patterns to optimize maintenance schedules.
- Reducing unplanned downtime through predictive maintenance insights.
- Using analytics to improve maintenance decision-making.



Unit 5:

Certification Preparation and Industry Best Practices:

- Preparing for the Certified Preventive and Predictive Maintenance CPPM exam.
- Review of key concepts, methodologies, and tools.
- Industry standards and best practices for PPM.
- Sample exam questions and their potential answers.
- Resources and study materials for further preparation.

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