

aractech

Global Learning for Operational Leaders



MAINTENANCE AND ENGINEERING

Certificate in Preventive and Predictive Maintenance (CPPM)

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Course content

Why Attend

The military initially pioneered preventive maintenance as a means to increase the reliability of their naval vessels. By simply expending the necessary resources to conduct maintenance activities intended by the equipment designer, equipment life is extended and its reliability is increased. In addition to an increase in reliability, more money is saved in comparison to the cost of a program just using reactive maintenance. Studies indicate that these savings can amount to as much as 12% to 18% on the average. Depending on a facility's current maintenance practices, present equipment reliability, and facility downtime, there is little doubt that many facilities are purely reliant on reactive maintenance. By implementing a proper preventative maintenance program, they could save much more than 18%.

This course will give participants an in-depth understanding of preventive and predictive maintenance practices; it will also cover a number of best practice techniques such as Total Productive Maintenance, Reliability Centered Maintenance, Condition Based Monitoring, Failure Modes and Effects Analysis, and Root Cause Failure Analysis.

Course Methodology

- The course is interactive and comprises lectures, case studies, technical process learning, and supplemental discussions covering various industries and implementation challenges.

Course Objectives

- Develop, implement and supervise the preventive and predictive maintenance program
- Implement the latest techniques and management styles of leading facilities and maintenance management practices
- Optimize the effectiveness of maintenance, by using sophisticated techniques and methods, to economize time, money and resources
- Prevent and limit equipment failures, and rework to improve the equipment's overall effectiveness and reliability
- Decrease downtime and increase profit for their organization

Target Audience

- This course is designed for all Maintenance Managers/Engineers, Supervisors and Planning Engineers. It is also suitable for those who are in operations, engineering and purchasing/materials divisions and who would like to acquire an understanding of how the quality of the maintenance function affects their department, and their organization's bottom-line.

- Target Competencies
- Develop Maintenance Programs
- Implement Maintenance Programs

Course outline

Detailed course outline

Module-by-module outline for Certificate in Preventive and Predictive Maintenance (CPPM).

Module 1 - Maintenance overview

- What is maintenance?
- Building a best in class asset register
- Formulating the maintenance policy
- Defining maintenance standards and allocation of resources
- Applying maintenance strategies

Module 2 - Common issues in an organization

- Lack of accountability
- Resource level issues
- Work requests with insufficient information or duplicated
- Importance of time writing daily
- Technical history retention
- KPI reviews - how often and why

Module 3 - Introduction to asset management

- ISO55000 asset management definitions
- Assets and asset systems
- Different stages of life cycle
- Asset management decisions and optimization
- Understanding objectives, cost, critical factors and risk

Course outline

Detailed course outline

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Module 4 - Computerized Maintenance Management System (CMMS) set-up

- CMMS set-up
- Criticality assignment SCE
- Production critical
- Non-critical
- Class and classification assessment and allocation
- Defining asset register systems

Module 5 - Work identification and requesting

- Work preparation: what is required and why
- Equipment assignment to the correct level
- Assigning prioritization - the benefits in using prioritization
- Best-in-class information required through Corrective Maintenance - Predictive Maintenance (CM-PM) work order(s)
- Roles and responsibilities for work preparation

Seminar dates

Available seminar dates

Live dates and pricing for Certificate in Preventive and Predictive Maintenance (CPPM) generated from the course details page.

Date	Location	Format	Fee
18 - 22 May 2026	Munich	Classroom	€2,415
22 - 26 June 2026	Amsterdam	Classroom	€2,975
13 - 17 July 2026	London	Classroom	€2,940
17 - 21 August 2026	Istanbul	Classroom	€1,995
21 - 25 September 2026	Vienna	Classroom	€2,975
19 - 23 October 2026	Barcelona	Classroom	€2,695
2 - 6 November 2026	Paris	Classroom	€3,150

Live online option

Online delivery is available at €1,250.