

aractech

Global Learning for Operational Leaders



MAINTENANCE AND ENGINEERING

Fundamentals of Maintenance Best Practice

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Course content

Why Attend

This course equips maintenance professionals with the essential knowledge and skills needed to implement industry-leading maintenance practices, enabling optimal efficiency and reliability in maintenance operations. Participants will explore various maintenance strategies, crafting customized approaches tailored to their unique equipment and systems. With a systematic approach, aided by cutting-edge digital tools, participants will learn to seamlessly execute these strategies, all while keeping track of performance to gauge their progress and improvements.

Course Methodology

- This course is based on open discussions, question and answer sessions, group exercises, activities, videos, case studies and presentations based on best practices and core principles.

Course Objectives

- Explain key maintenance principles such as predictive maintenance (PdM), Total Preventive Maintenance (TPM), Reliability Centered Maintenance (RCM) and Root Cause Failure Analysis (RCFA)
- Select the right maintenance strategy that will eliminate downtime, at the optimum cost, and maximize facility performance
- Demonstrate the use of advanced maintenance tools and techniques to boost facility reliability
- Understand the significance of safety protocols and regulations in maintenance activities
- Recognize the latest technologies in maintenance and execute digitalization initiatives related to Asset Management

Target Audience

- This course is suitable for any participants relatively new to the maintenance field/industry; this includes maintenance engineers, maintenance technicians, maintenance officials, maintenance supervisors, operators, operations supervisors, operations engineers and technicians.
- Target Competencies
- Maintenance Management
- Failure Analysis

Course outline

Detailed course outline

Module-by-module outline for Fundamentals of Maintenance Best Practice.

Module 1 - Introduction to Maintenance

- Definition of maintenance
- Proactive maintenance
- The maintenance cost iceberg
- Reliability concepts
- Asset management and asset life cycle
- Health, Safety, and Environment (HSE)

Module 2 - Maintenance Strategy and Policies

- Corrective maintenance
- Preventive maintenance
- Time-based vs condition-based maintenance
- Predictive maintenance (PdM)
- Reliability centered maintenance (RCM)
- Selecting the right maintenance strategy

Course outline

Detailed course outline

Module-by-module outline for Fundamentals of Maintenance Best Practice.

Module 3 - Predictive Maintenance (PdM) Techniques

- Predictive maintenance (PdM) definition
- PdM workflow
- Implementing PdM
- Types of PdM
- Condition-based maintenance
- Vibrational analysis

Module 4 - Equipment Reliability Management

- Criticality analysis
- Reliability Centered Maintenance (RCM)
- RCM related references and standards
- Failure definitions
- RCM process flow diagram
- Defining RCM outputs

Module 5 - Total Preventive Maintenance (TPM)

- TPM pillars
- Kobetsu KAIZEN™
- Autonomous maintenance
- Planned maintenance
- How to implement TPM

Seminar dates

Available seminar dates

Live dates and pricing for Fundamentals of Maintenance Best Practice generated from the course details page.

Date	Location	Format	Fee
15 - 19 June 2026	Rome	Classroom	€2,975
20 - 24 July 2026	Kuala Lumpur	Classroom	€1,575
3 - 7 August 2026	Barcelona	Classroom	€2,695
7 - 11 September 2026	London	Classroom	€2,940
12 - 16 October 2026	Munich	Classroom	€2,415
9 - 13 November 2026	Rome	Classroom	€2,975
14 - 18 December 2026	Munich	Classroom	€2,415

Live online option

Online delivery is available at €1,250.