



MAINTENANCE AND ENGINEERING

Certificate in Maintenance Management

Professional training programme



SPARK TRAINING

Professional training courses for leaders, specialists, and organizations seeking practical capability development.

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— Workshop Overview

This course provides participants with a comprehensive foundation to advance their maintenance management career, focusing on developing strategic maintenance plans, optimize budgeting processes, manage contracts, and leverage technology for enhanced operational efficiency. This course equips maintenance professionals with the skills and knowledge necessary to effectively lead and improve maintenance operations.

Why Attend

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

Who Should Attend

This course is suitable for participants with several years of experience in maintenance. This includes Maintenance Managers, Maintenance Engineers, Maintenance Supervisors and Maintenance Planning Engineers. It is also suitable for professionals who work in the operations, engineering and procurement/materials

— Learning Objectives

- Formulate effective maintenance strategies to optimize equipment performance and lifespan
- Gain insights into budgeting and cost control for maintenance activities
- Master maintenance planning and scheduling to minimize downtime and optimize utilization of maintenance resources
- Structure the maintenance workforce and analyze workload to ensure maximum productivity
- Use Computerized Maintenance Management Systems (CMMS) for tracking and managing maintenance activities

Course Outline

DAY
1

Maintenance Strategies and the Budgeting Process

- Types of maintenance strategies
- Maintenance strategy formulation
- Budgeting fundamentals
- Maintenance budget development
- Maintenance analysis and cost control
- Performance management and key performance indicators (KPIs)

DAY
2

Reliability Centered Maintenance (RCM)

- Criticality analysis
- RCM study
- RCM related references and standards
- Failure definitions
- RCM process flow diagram
- Defining RCM outputs
- Benefits of RCM

DAY
3

Maintenance Contracts and Contractor Management

- What is outsourcing? And why outsource?
- Challenges and risks of outsourcing
- Outsourcing lifecycle model
- Outsourcing strategy analysis
- Contracts and contracting process
- Contracts monitoring and evaluation

DAY
4

Planning and Scheduling Maintenance Activities

- The 6 elements of maintenance planning and scheduling
- Identifying maintenance activities and prioritize them
- Developing a maintenance plan
- Continuous maintenance scheduling process
- Executing the maintenance activities
- Close out
- Reviews and improvements

DAY
5

Maintenance Workforce Planning and Development

- Maintenance key positions
- Building an effective team structure
- Leadership and team management
- Workload analysis and RACI matrix
- Learning and development
- Competency assurance management system
- Day 6: Spare Parts and Inventory Management
- Objectives of inventory control
- Functions of spare parts management
- Inventory order cycle
- The ABC analysis
- Stock turnover and cover
- How is inventory valued?
- Inventory reorder policies
- Inventory improvement actions
- Day 7: Computerized Maintenance Management System (CMMS)
- Work requests
- Work request workflow
- Types of work requests
- How work requests improve maintenance
- Work orders
- Work order workflow
- Types of work orders
- Bill of Materials (BOM)
- Components of a Bill of Materials
- Application Parts List (APL)
- APL vs. BOM
- Components of an Application Parts List
- CMMS simulation
- Day 8: Maintenance Risk Management
- Key concepts and definitions
- Importance of risk management
- Types of maintenance risks
- Risk management framework

- Integrating risk management into maintenance practices
- Safety and compliance
- Day 9: Continuous Improvement in Maintenance
- Lean maintenance
- 5S Methodology
- Total Productive Maintenance (TPM) pillars and importance of autonomous maintenance
- Industrial Internet of Things (IIoT) and predictive analytics
- Benchmarking

— Upcoming Classroom Dates

DATE	LOCATION	FEE
12 - 16 October 2026	Munich - Germany	€1,725
9 - 13 November 2026	Amsterdam - Netherlands	€2,125
14 - 18 December 2026	Istanbul - Türkiye	€1,425
18 - 22 January 2027	Rome - Italy	€2,125
15 - 19 February 2027	Kuala Lumpur - Malaysia	€1,400
15 - 19 March 2027	Barcelona - Spain	€1,925
19 - 23 April 2027	London - United Kingdom	€2,100
17 - 21 May 2027	Munich - Germany	€2,125

— Certificate and Registration

Participants who attend and complete the full programme receive a SPARK Training Certificate of Completion. For registration, in-house delivery, or availability questions, contact info@sparktraining.eu or +31 85 115 0004.