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MAINTENANCE AND ENGINEERING | ME-001

Advanced Maintenance for Engineering Managers

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Course content

Why Attend

Maintenance management is a critical function that directly impacts asset reliability, operational efficiency, safety, and profitability. Engineering managers are increasingly expected to move beyond reactive maintenance and adopt strategic, data-driven approaches that optimize performance and reduce downtime. This course provides advanced knowledge and practical tools to design, implement, and manage modern maintenance strategies. Participants will gain insights into reliability-centered maintenance (RCM), predictive maintenance, asset lifecycle management, and the integration of digital technologies in maintenance operations.

Course Methodology

This course combines advanced theoretical concepts with real-world industrial case studies and practical exercises. Participants will engage in scenario-based discussions, maintenance planning simulations, and problem-solving workshops. The course also includes exposure to modern maintenance tools and technologies such as condition monitoring systems and computerized maintenance management systems (CMMS). Group activities will focus on improving decision-making and maintenance strategy development.

Course Objectives

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

- Develop and implement advanced maintenance strategies
- Apply reliability-centered and risk-based maintenance approaches
- Improve asset performance and reduce downtime
- Plan and optimize maintenance schedules and resources
- Use data and analytics for predictive maintenance
- Implement effective maintenance KPIs and performance metrics
- Manage maintenance teams and workflows efficiently
- Integrate digital technologies into maintenance management



Course content

Target Audience

- Engineering Managers and Maintenance Managers
- Plant Managers and Operations Managers
- Reliability Engineers and Asset Managers
- Maintenance Supervisors and Team Leaders
- Technical Professionals in manufacturing, oil & gas, utilities, and infrastructure

Target Competencies

- Strategic maintenance planning and execution
- Asset reliability and lifecycle management
- Data-driven maintenance decision-making
- Performance monitoring and KPI management
- Risk-based maintenance approaches
- Leadership and team management in maintenance
- Technology integration (CMMS, predictive tools)

Course outline

Day 1: Maintenance Strategy and Asset Management

- Evolution of maintenance (reactive preventive predictive)
- Role of maintenance in organizational performance
- Asset lifecycle management principles
- Maintenance strategies and frameworks
- Introduction to reliability engineering

Day 2: Reliability-Centered and Risk-Based Maintenance



Course content

Course outline

- Principles of Reliability-Centered Maintenance (RCM)
- Failure modes and effects analysis (FMEA)
- Risk-based maintenance planning
- Criticality analysis of assets
- Maintenance optimization techniques

Day 3: Predictive Maintenance and Data Analytics

- Condition monitoring techniques
- Predictive maintenance concepts and tools
- Data collection and analysis for maintenance
- Introduction to IoT and smart maintenance systems
- Using data to prevent failures

Day 4: Maintenance Planning, Scheduling, and Control

- Maintenance planning and work management
- Scheduling techniques and resource allocation
- Spare parts and inventory management
- Computerized Maintenance Management Systems (CMMS)
- KPI development and performance tracking

Day 5: Leadership, Continuous Improvement, and Best Practices

- Leading maintenance teams effectively
- Continuous improvement methodologies (Lean, Six Sigma basics)
- Maintenance audits and performance reviews
- Safety and compliance in maintenance operations



Course content

Course outline

• Case studies and maintenance strategy development workshop



Seminar dates

Available seminar dates

Live dates and pricing for Advanced Maintenance for Engineering Managers generated from the course details page.

Date	Location	Format	Fee
16 - 20 November 2026	Paris - France	Classroom	**€3,080.-**
7 - 11 December 2026	Barcelona - Spain	Classroom	**€3,520.-**
21 - 25 December 2026	London - U.K	Classroom	**€3,600.-**
18 - 22 January 2027	Munich - Germany	Classroom	**€3,400.-**
15 - 19 February 2027	Amsterdam - Netherlands	Classroom	**€3,400.-**
15 - 19 March 2027	Istanbul - Turkey	Classroom	**€2,280.-**
19 - 23 April 2027	London - U.K	Classroom	**€3,360.-**
17 - 21 May 2027	Barcelona - Spain	Classroom	**€3,080.-**
21 - 25 June 2027	Istanbul - Turkey	Classroom	**€2,280.-**
19 - 23 July 2027	Madrid - Spain	Classroom	**€3,400.-**
16 - 20 August 2027	Paris - France	Classroom	**€3,600.-**
20 - 24 September 2027	Barcelona - Spain	Classroom	**€3,080.-**
18 - 22 October 2027	London - U.K	Classroom	**€3,360.-**
15 - 19 November 2027	Munich - Germany	Classroom	**€3,400.-**
20 - 24 December 2027	Amsterdam - Netherlands	Classroom	**€3,400.-**

Live online option	Online delivery is available at €1,850.-.