



aractech

Global Learning for Operational Leaders

MAINTENANCE AND ENGINEERING | ME-001

Advanced Maintenance for Engineering Managers

Contact

+31 85 7444446
info@aractech.com
<https://aractech.eu>

Address

Waarderweg 50, 2031PB Haarlem - Netherlands.

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

- 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

Target Audience

- Engineering Managers and Maintenance Managers
- Plant Managers and Operations Managers
- Reliability Engineers and Asset Managers
- Maintenance Supervisors and Team Leaders

Course outline

Detailed course outline

Day-by-day outline for Advanced Maintenance for Engineering Managers.

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

- 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

Course outline

Detailed course outline

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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
- 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
18 - 22 May 2026	Munich	Classroom	€2,940
1 - 5 June 2026	Amsterdam	Classroom	€2,940
8 - 12 June 2026	Istanbul	Classroom	€1,995
6 - 10 July 2026	London	Classroom	€2,975
10 - 14 August 2026	Barcelona	Classroom	€2,695
14 - 18 September 2026	Istanbul	Classroom	€1,995
5 - 9 October 2026	Amsterdam	Classroom	€2,940

Live online option

Online delivery is available at €1,250.