



Advanced Maintenance Work and Methods of Planning and Monitoring its Performance

07 - 11 Apr 2025
Barcelona (Spain)



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Ref.: 15707_321722 **Date:** 07 - 11 Apr 2025 **Location:** Barcelona (Spain) **Fees:** 5500 **Euro**

Introduction:

In today's dynamic industrial environment, the efficiency and reliability of maintenance operations are critical to achieving organizational goals. Advanced maintenance work goes beyond routine tasks, incorporating innovative methods and technologies to optimize asset performance and longevity.

This course delves into sophisticated strategies for planning and monitoring maintenance activities, ensuring they align with organizational objectives and regulatory requirements. Participants will explore the latest tools and techniques in predictive maintenance, real-time monitoring, and data-driven decision-making, which are essential for minimizing downtime, reducing costs, and enhancing overall productivity.

Targeted Groups:

- Maintenance Managers.
- Maintenance Engineers.
- Reliability Engineers.
- Asset Managers.
- Operations Managers.
- Plant Supervisors.
- Maintenance Planners.
- Facility Managers.
- Technical Supervisors.
- Industrial Maintenance Professionals.

Course Objectives:

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

- Enhance knowledge of advanced maintenance strategies and methodologies.
- Develop effective maintenance planning and scheduling techniques.
- Improve skills in monitoring and analyzing maintenance performance.
- Learn to implement predictive maintenance tools and technologies.
- Optimize asset management practices for improved reliability.
- Apply data-driven approaches to maintenance decision-making.
- Strengthen capabilities in root cause analysis and problem-solving.
- Reduce downtime and maintenance costs through strategic planning.
- Foster a proactive maintenance culture within the organization.
- Ensure alignment of maintenance activities with organizational goals.

Targeted Competencies:

- Predictive Maintenance Techniques.
- Maintenance Planning and Scheduling.
- Performance Monitoring and Analysis.
- Asset Management Strategies.
- Reliability-Centered Maintenance RCM.
- Root Cause Analysis RCA.
- Data-Driven Decision Making.
- Maintenance Optimization.
- Risk Management in Maintenance.
- Technical Troubleshooting Skills.

Course Content:

Unit 1: Advanced Maintenance Strategies:

- Overview of modern maintenance approaches.
- Comparison of preventive, predictive, and condition-based maintenance.
- Integration of advanced technologies in maintenance.
- Benefits of Reliability-Centered Maintenance RCM.
- Implementation of Total Productive Maintenance TPM concepts.
- Case studies of successful advanced maintenance strategies.
- Challenges and solutions in adopting new maintenance techniques.

Unit 2: Planning and Scheduling Techniques:

- Fundamentals of maintenance planning and scheduling.
- Developing detailed maintenance plans and schedules.
- Utilization of Computerized Maintenance Management Systems CMMS.
- Techniques for optimizing maintenance schedules.
- Methods for balancing maintenance tasks with operational demands.
- Strategies for effective resource allocation.
- Real-world examples of successful maintenance planning.

Unit 3: Performance Monitoring and Analysis:

- Key performance indicators KPIs for maintenance.
- Methods for monitoring equipment performance.
- Techniques for analyzing maintenance data and trends.
- Use of real-time monitoring systems and sensors.
- Identifying and addressing performance issues.
- Tools for generating maintenance performance reports.
- Case studies illustrating effective performance monitoring.

Unit 4: Predictive Maintenance and Technologies:

- Introduction to predictive maintenance concepts.
- Overview of predictive maintenance technologies and tools.
- Techniques for data collection and analysis.
- Implementing condition monitoring and diagnostic tools.
- Benefits of using artificial intelligence and machine learning.
- Case studies demonstrating successful predictive maintenance.
- Challenges and best practices for predictive maintenance implementation.

Unit 5: Optimization and Continuous Improvement:

- Strategies for optimizing maintenance operations.
- Methods for reducing maintenance costs and downtime.
- Techniques for continuous improvement in maintenance practices.
- Role of root cause analysis in maintenance optimization.
- Implementing feedback loops for ongoing improvement.
- Evaluating and adjusting maintenance strategies based on performance data.
- Real-world examples of maintenance optimization successes.



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