

Maintenance Standards and How to Apply Them

Barcelona (Spain)

26 - 30 May 2025

UK Training

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Maintenance Standards and How to Apply Them

Code: SC28 From: 26 - 30 May 2025 City: Barcelona (Spain) Fees: 4400 Pound

Introduction

This training course is designed to equip participants with a comprehensive understanding of maintenance standards and their application across various industrial and organizational environments. It covers essential maintenance methodologies, best practices, and provides strategies for integrating these standards into daily maintenance operations. Participants will learn to implement standards that enhance asset reliability, efficiency, and compliance while using them to create effective, sustainable maintenance strategies.

Course Objectives

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

- Grasp the significance of maintenance standards and their role in optimizing asset performance.
- Identify and apply relevant maintenance standards such as ISO, SAE, OEM standards to real-world situations.
- Implement maintenance procedures that follow industry best practices.
- Develop and manage a robust maintenance management system aligned with established standards.
- Utilize performance metrics and audits to ensure adherence to maintenance standards and improve overall maintenance effectiveness.

Course Outlines

Day 1: Introduction to Maintenance Standards

- What Are Maintenance Standards?: Defining maintenance standards and their importance in improving equipment reliability, safety, and operational efficiency.
- Overview of Key Maintenance Standards: Introduction to key international standards, including ISO 55000 Asset Management, ISO 9001 Quality Management, and standards from organizations like SAE and ASTM.
- Benefits of Applying Maintenance Standards: Understanding how standards contribute to consistent performance, cost reduction, safety, and regulatory compliance.
- Types of Maintenance Standards: Overview of different types of maintenance standards: preventive, predictive, corrective, and reliability-centered maintenance RCM.
- Key Principles Behind Maintenance Standards: Key principles such as equipment life cycle, root cause analysis RCA, and continuous improvement in maintenance.

Day 2: Developing and Implementing Maintenance Plans

- Creating a Maintenance Strategy: Steps for developing a maintenance strategy that aligns with organizational needs and applicable standards.
- Establishing Preventive Maintenance PM Programs: Setting up preventive maintenance tasks, schedules,

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and frequency based on industry and manufacturer standards.

- Predictive Maintenance PdM Standards and Techniques: The role of monitoring tools, data collection, and predictive analysis in meeting maintenance standards.
- Corrective and Emergency Maintenance: When and how to implement corrective maintenance as part of established standards.
- Standard Operating Procedures SOPs for Maintenance: Developing and documenting SOPs for various maintenance activities to ensure consistent adherence to standards.

Day 3: Maintenance Compliance and Best Practices

- Understanding Compliance in Maintenance: The importance of compliance with industry standards and regulatory requirements in maintenance operations.
- Key Maintenance Performance Indicators KPIs: Using KPIs to measure maintenance performance and ensure compliance with established standards.
- Implementing Best Practices for Maintenance: Incorporating best practices, such as Total Productive Maintenance TPM, to meet standards and improve overall equipment effectiveness.
- Maintaining Equipment and Asset Reliability: Aligning maintenance strategies with reliability-centered maintenance RCM principles to ensure long-term asset reliability.
- Auditing and Reporting for Compliance: Conducting maintenance audits to assess compliance with standards and best practices, and reporting findings effectively.

Day 4: Tools, Technologies, and Resources for Maintenance Standards

- Using Maintenance Management Software CMMS: Introduction to Computerized Maintenance Management Systems CMMS tools for implementing and tracking maintenance standards.
- Digitalization in Maintenance: Leveraging IoT Internet of Things and smart technologies to monitor equipment and ensure adherence to maintenance standards.
- Training and Certifying Maintenance Personnel: The importance of training and certifying maintenance personnel to ensure they are knowledgeable about relevant standards and procedures.
- Creating a Maintenance Resource Library: Building a comprehensive repository of standards, procedures, manuals, and troubleshooting guides for effective implementation.
- Outsourcing and Vendor Management: Applying maintenance standards when working with external contractors and vendors to ensure compliance and quality.

Day 5: Continuous Improvement and Maintenance Optimization

- Root Cause Analysis RCA and Failure Analysis: Utilizing RCA to identify the root causes of failures and optimize maintenance strategies in line with established standards.
- Continuous Improvement Models: Implementing lean, Six Sigma, or Total Quality Management TQM principles to continuously improve maintenance processes and ensure compliance with standards.
- Benchmarking Maintenance Performance: Using industry benchmarks and internal metrics to evaluate and improve maintenance performance over time.
- Developing a Maintenance Audit Program: How to conduct regular audits and performance reviews to ensure ongoing compliance with maintenance standards.
- Sustaining Maintenance Standards Over Time: Building a culture of continuous adherence to maintenance standards and developing long-term strategies for ongoing improvement.

A graphic of a chessboard with several chess pieces. A gold king piece is prominent in the foreground, with a silver pawn and a silver knight piece nearby. The board is set against a background of concentric white circles on a light gray surface.

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