

Optimizing Preventive Maintenance

Seattle, Washington (USA)

9 - 13 December 2024

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Optimizing Preventive Maintenance

Code: SC28 From: 9 - 13 December 2024 City: Seattle, Washington (USA) Fees: 5700 Pound

Introduction

This comprehensive training course is designed to equip participants with the knowledge and tools necessary to optimize preventive maintenance PM processes. The program focuses on enhancing operational efficiency, reducing unplanned downtime, improving asset reliability, and extending equipment lifespan. By adopting best practices and utilizing modern technology, participants will gain the skills to develop and implement effective preventive maintenance strategies that drive cost savings and operational excellence.

Course Objectives

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

- Understand the principles and importance of preventive maintenance PM in asset management.
- Develop tailored preventive maintenance programs for specific equipment and systems.
- Optimize PM schedules based on equipment usage, condition, and lifecycle.
- Leverage data and modern tools to enhance maintenance processes.
- Measure and refine PM programs to ensure continuous improvement and efficiency.

Course Outlines

Day 1: Introduction to Preventive Maintenance

- Overview of PM: Definitions, objectives, and key benefits.
- Comparing PM with Corrective and Predictive Maintenance.
- Core Concepts in Asset Management: Reliability and lifecycle optimization.
- The Cost-Saving Role of Preventive Maintenance: Reducing downtime and repair costs.
- Challenges and Solutions in Implementing PM.

Day 2: Developing a Preventive Maintenance Strategy

- Framework for Designing a PM Program: Step-by-step guide.
- Prioritizing Critical Equipment: Identifying assets requiring PM.
- Crafting Maintenance Schedules: Time-based vs. condition-based approaches.
- Creating SOPs for PM Tasks: Detailed instructions and checklists.
- Aligning PM Programs with Organizational Goals and Objectives.

Day 3: Optimizing Schedules and Resources

A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) on it, set against a background of concentric circles. The text 'UK Training PARTNER' is overlaid on the right side of the board.

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- Determining Maintenance Intervals: Calculating optimal PM frequencies.
- Balancing PM with Corrective Maintenance: Achieving efficiency.
- Effective Resource Management: Allocating labor, tools, and spare parts.
- Scheduling with CMMS Tools: Introduction to Computerized Maintenance Management Systems.
- Avoiding Over-Maintenance and Under-Maintenance of Equipment.

Day 4: Leveraging Technology and Data

- Data-Driven Decision Making: Analyzing maintenance performance data.
- Using CMMS for PM Optimization: Scheduling and tracking tasks effectively.
- Incorporating Condition-Based Monitoring: IoT sensors and predictive analytics.
- Integrating PM with Inventory and Asset Management Systems.
- Exploring Automation in PM: Enhancing routine maintenance efficiency.

Day 5: Performance Measurement and Continuous Improvement

- Key Metrics for PM Effectiveness: MTBF, MTTR, and downtime analysis.
- Using Data to Track and Analyze PM Results.
- Root Cause Analysis RCA: Addressing repeated failures for improved reliability.
- Continuous Improvement Strategies for PM Programs.
- Real-World Case Studies and Best Practices in PM Optimization.

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