Maintenance and Reliability Best Practices Certification

11 – 15 January 2027
Rome (Italy)



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Ref: 322857_216729 **Date:** 11 – 15 January 2027 **Location:** Rome (Italy) **Fees:** 5200 GBP

Course Description

This comprehensive 1-week course covers essential maintenance and reliability best practices for industrial professionals. Participants will learn cutting-edge strategies to optimize asset performance, reduce downtime, and improve overall operational efficiency. The program combines theoretical knowledge with practical applications to provide a well-rounded learning experience.

Learning Objectives

- Understand key maintenance and reliability concepts and their impact on business performance
- Learn to implement effective maintenance strategies and optimize asset lifecycle management
- Develop skills in failure analysis, root cause determination, and preventive maintenance planning
- Gain proficiency in using reliability tools and techniques to enhance equipment performance
- Explore best practices in work order management, scheduling, and resource allocation
- Understand the importance of continuous improvement in maintenance and reliability processes

Course Modules

Day 1: Foundations of Maintenance and Reliability

- Introduction to maintenance and reliability concepts
- Asset management fundamentals
- Maintenance strategies overview
- Key performance indicators KPIs for maintenance

Day 2: Reliability-Centered Maintenance RCM

- RCM principles and methodology
- Failure modes and effects analysis FMEA
- Criticality analysis and risk assessment
- Developing effective maintenance plans

Day 3: Predictive and Preventive Maintenance Techniques

- Condition-based maintenance strategies
- Predictive maintenance technologies
- Preventive maintenance optimization
- Implementing a successful PM program



Day 4: Root Cause Analysis and Failure Prevention

- Root cause analysis techniques
- Failure data collection and analysis
- Implementing corrective actions
- Continuous improvement processes

Day 5: Work Management and Performance Optimization

- Work order management best practices
- Planning and scheduling techniques
- Resource allocation and optimization
- Performance measurement and benchmarking

Practical Wins for Participants

- Develop a customized maintenance strategy for your organization
- Create a failure modes and effects analysis FMEA for a critical asset
- Design an optimized preventive maintenance schedule
- Conduct a root cause analysis on a recurring equipment failure

