

Rotating Equipment Maintenance and Troubleshooting Course

20 – 24 September 2027
Los Angeles (USA)

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Ref: 321624_142263 **Date:** 20 – 24 September 2027 **Location:** Los Angeles (USA) **Fees:** 6600 GBP

Why This Course

Rotating equipment is at the heart of many industrial operations, and its reliability directly impacts productivity and operational efficiency. This intensive 5-day course equips professionals with advanced skills in maintenance, diagnostics, and troubleshooting to ensure optimal performance and longevity of rotating machinery. Through hands-on exercises, real-world case studies, and expert guidance, participants will gain practical knowledge they can immediately apply to enhance equipment reliability and minimize downtime.

What You'll Learn and Practice

By attending this program, you will be able to:

- Master advanced diagnostic techniques for rotating equipment.
- Implement preventive and predictive maintenance strategies to extend equipment lifespan.
- Develop troubleshooting skills to quickly identify and resolve common issues.
- Optimize equipment performance and improve operational efficiency.
- Apply best practices to enhance reliability and reduce downtime.

The Program Flow

Day 1: Introduction to Rotating Equipment

- Types and industrial applications of rotating machinery
- Basic principles of operation
- Key components and their functions
- Importance of proper maintenance practices

Day 2: Diagnostic Testing Techniques

- Vibration analysis and monitoring
- Thermography and temperature assessment
- Oil analysis and lubrication evaluation
- Performance testing and efficiency evaluation

A graphic of a chessboard with several pawns. In the foreground, a large gold king piece stands prominently. Behind it, several smaller pawns, some gold and some silver, are positioned on the board. The background features concentric circles, suggesting a target or a field of vision.

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Day 3: Maintenance Strategies and Best Practices

- Preventive maintenance planning
- Predictive and condition-based maintenance approaches
- Scheduling and documentation of maintenance activities
- Techniques for improving equipment reliability

Day 4: Troubleshooting Rotating Equipment

- Common failure modes and underlying causes
- Systematic troubleshooting approaches
- Root cause analysis methods
- Practical problem-solving and case studies

Day 5: Performance Optimization and Advanced Topics

- Techniques to improve efficiency and reduce energy consumption
- Balancing and alignment procedures
- Bearing and sealing system maintenance
- Strategies to extend equipment life and ensure long-term reliability

Individual Impact

Participants will leave the course with:

- The ability to implement maintenance programs that reduce downtime.
- Skills to quickly diagnose and resolve rotating equipment issues.
- Knowledge to optimize machinery performance and efficiency.
- Expertise to extend the lifespan of critical industrial equipment.

Organizational Impact

Organizations will benefit from:

- Enhanced operational reliability and reduced equipment downtime.
- Improved maintenance planning and resource allocation.
- Increased equipment efficiency and energy savings.
- Strengthened workforce skills in advanced diagnostics and troubleshooting.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn nearby. The background features concentric circles and a checkered pattern.

Training Methodology

- Interactive workshops and hands-on exercises
- Real-world case studies and problem-solving sessions
- Collaborative learning to apply techniques in practical scenarios
- Action planning for implementing maintenance and optimization strategies

Beyond the Course

By the end of the five days, participants will be fully prepared to:

- Maintain and troubleshoot rotating equipment with confidence and precision.
- Apply diagnostic and preventive strategies to improve performance.
- Minimize operational disruptions and extend equipment lifespan.
- Contribute to a culture of reliability and operational excellence within their organization.

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