



External Training Course

Advanced Strategies for Rotating Equipment Maintenance Excellence

From 26 Aug. To 30 Aug. 2024

From 16 Sep. To 20 Sep. 2024

From 28 Oct. To 01 Nov. 2024

Hotel Garden Court, Prague, Czech Republic

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External Training Course:

**Advanced Strategies for Rotating
Equipment Maintenance Excellence**

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Fees: 1750 KD

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Course Overview:

Welcome to the "Advanced Strategies for Rotating Equipment Maintenance Excellence" training course! This comprehensive 5-day program is designed for Rotating Equipment Maintenance Division Team Leaders, Maintenance Managers, Reliability Engineers, Maintenance Supervisors, and Maintenance Planners working in refinery and gas plant environments. The course aims to equip participants with the advanced strategies and tools necessary to achieve maintenance excellence in managing rotating equipment. Rotating equipment, such as pumps, compressors, turbines, and motors, play a crucial role in the smooth operation of refineries and gas plants. Effective maintenance strategies are essential to ensure the reliability, safety, and optimal performance of these critical assets. This course will delve into advanced maintenance techniques, predictive maintenance strategies, reliability-centered maintenance principles, root cause analysis methods, maintenance planning and scheduling best practices, performance optimization strategies, and leadership skills necessary to drive maintenance excellence. Through a combination of instructor-led presentations, interactive discussions, case studies, practical exercises, and group activities, participants will have the opportunity to deepen their understanding of advanced maintenance concepts and develop actionable strategies to enhance rotating equipment maintenance practices in their respective organizations. By the end of the course, participants will be equipped with the knowledge and skills needed to drive continuous improvement and excellence in rotating equipment maintenance operations. Join us on this exciting journey towards achieving maintenance excellence and optimizing the performance of rotating equipment in refinery and gas plant settings. Let's work together to elevate your maintenance leadership capabilities and drive success in maintaining critical assets. Thank you for participating in the "Advanced Strategies for Rotating Equipment Maintenance Excellence" training course.

Course Objectives:

- Understand the fundamentals and advanced concepts of rotating equipment maintenance.
- Learn to diagnose and troubleshoot common issues in rotating machinery.
- Develop skills in predictive and preventive maintenance techniques.
- Master the application of condition monitoring tools and technologies.
- Implement strategies to improve equipment reliability and reduce downtime.
- Gain insights into the latest trends and innovations in rotating equipment maintenance.

Learning Methods:

Lectures and presentations.

Interactive discussions.

Hands-on exercises and workshops.

Case studies and real-world examples.

Group activities and collaborative learning

Course Outline:

Day 1: Introduction to Rotating Equipment Maintenance

- Overview of rotating equipment: types and applications.
- Fundamentals of rotating equipment maintenance.
- Key performance indicators (KPIs) for maintenance excellence.
- Common failure modes and root cause analysis.

Day 2: Predictive and Preventive Maintenance Techniques

- Principles of predictive maintenance (PdM).
- Techniques: vibration analysis, thermography, oil analysis, ultrasound.
- Preventive maintenance (PM) strategies and planning.
- Developing and optimizing PM schedules.

Day 3: Condition Monitoring and Diagnostics

- Condition monitoring methods and technologies.
- Data collection and analysis.
- Diagnostic techniques for rotating equipment.
- Case studies on successful implementation of condition monitoring.

Day 4: Reliability-Centered Maintenance (RCM)

- Introduction to RCM principles and methodology.
- Identifying critical equipment and prioritizing maintenance tasks.
- Implementing RCM in an industrial setting.
- Benefits and challenges of RCM.

Day 5: Advanced Maintenance Strategies and Innovations

- Latest trends in rotating equipment maintenance.
- Leveraging technology and innovation in maintenance practices.
- Maintenance management systems and software.
- Continuous improvement and benchmarking for maintenance excellence.
- Final assessment and course review.