Engineering Plant Maintenance & Operations Training Course

1 – 5 March 2027
Düsseldorf (Germany)



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Introduction

Efficient plant maintenance and operations are at the heart of any successful engineering facility. Organizations today require professionals who can not only manage engineering plant systems, but also ensure reliability, safety, and optimal performance through structured maintenance and operational excellence.

This intensive 1-week course is designed to equip participants with the practical knowledge and hands-on skills needed to manage plant operations effectively. Covering key areas such as preventive maintenance, troubleshooting, plant safety, and operational efficiency, the program blends theory with real-world applications.

By the end of the course, participants will be able to confidently handle maintenance challenges, improve system performance, and contribute to reducing downtime and operational costs.

Course Objectives

By completing this program, participants will be able to:

- Understand core principles of plant maintenance and operations management
- Develop and implement preventive maintenance plans and schedules
- Apply effective troubleshooting techniques and root cause analysis
- Ensure compliance with plant safety protocols and regulatory standards
- Improve operational efficiency and overall plant performance
- Utilize maintenance planning tools and asset management systems

Course Outlines

Day 1: Introduction to Plant Maintenance and Operations

- Overview of engineering plant systems and components
- Maintenance strategies: reactive, preventive, and predictive
- Principles of operational efficiency in plant environments
- Fundamentals of plant safety and risk awareness



Day 2: Preventive Maintenance Techniques

- Designing and implementing preventive maintenance schedules
- Condition monitoring and predictive maintenance approaches
- Maintenance planning, scheduling, and resource allocation
- Introduction to asset management systems

Day 3: Troubleshooting and Problem Solving

- Root cause analysis and systematic problem-solving methods
- Common plant issues and effective solutions
- Diagnostic tools and maintenance equipment
- Emergency response and corrective action procedures

Day 4: Plant Safety and Compliance

- Regulatory requirements and industry standards
- Risk assessment and hazard management
- Environmental and sustainability considerations
- Safety audits, inspections, and compliance practices

Day 5: Operational Efficiency and Performance Optimization

- Key Performance Indicators KPIs in plant operations
- Energy efficiency and cost optimization strategies
- Lean maintenance and waste reduction techniques
- Continuous improvement for long-term performance

Why Attend this Course: Wins & Losses!

- Strong capability in managing plant maintenance and operations effectively
- Practical expertise in preventive maintenance and performance optimization
- Advanced troubleshooting skills for faster issue resolution
- Improved knowledge of plant safety, compliance, and risk management
- Ability to enhance operational efficiency and reduce downtime and costs

Conclusion

This course provides a comprehensive and practical pathway to mastering plant maintenance and operations in modern engineering environments.

Participants will leave with the confidence and capability to implement effective maintenance strategies, ensure safe operations, and drive continuous improvement. With a strong focus



efficiency, safety, and performance, this program empowers professionals to play a critical role in achieving operational excellence and long-term organizational success.

