BLACKBIRD FOR TRAINING

Maintenance and Operation Planning

Brussels (Belgium)

29 September - 10 October 2025

Maintenance and Operation Planning

Code: SC28 From: 29 September - 10 October 2025 City: Brussels (Belgium) Fees: 7400 Pound

Introduction

This advanced course in maintenance and operation planning aims to provide you with comprehensive knowledge and practical expertise in developing modern and efficient maintenance strategies. You will learn the latest concepts, techniques, and best practices in preventive maintenance and maintenance management. Through a combination of theoretical sessions, practical exercises, and case studies, you will acquire the necessary skills to optimize maintenance activities, reduce downtime, and ensure the smooth operation of equipment and facilities.

Objectives

- Understand the importance of maintenance and operation planning in maximizing equipment reliability and availability.
- Explore the latest trends and best practices in preventive maintenance and maintenance management.
- Develop strategies for effective maintenance planning, scheduling, and resource allocation.
- Learn techniques for condition monitoring, failure analysis, and root cause identification.
- Implement predictive maintenance techniques and technologies, such as vibration analysis and thermography.
- Gain insights into maintenance performance metrics and key performance indicators KPIs.
- Develop skills in maintenance budgeting, cost control, and optimization.
- Understand the role of computerized maintenance management systems CMMS and enterprise asset management EAM software in modern maintenance practices.

Course Outline

Day 1

Introduction to Maintenance and Operation Planning

- Importance of maintenance planning and its impact on equipment reliability
- Overview of maintenance strategies: reactive, preventive, predictive, and proactive
- Introduction to maintenance management systems and software tools

Day 2

Objectives and Benefits of Preventive Maintenance

- Fundamentals of preventive maintenance and its role in equipment longevity
- Developing preventive maintenance schedules based on equipment criticality

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- Implementing condition-based maintenance techniques

Day 3

Maintenance Planning and Scheduling

- Techniques for effective maintenance planning and scheduling
- Resource allocation and optimization in maintenance activities
- Key considerations in work order management

Day 4

Failure Analysis and Root Cause Identification

- Understanding failure modes and effects analysis FMEA
- Root cause analysis RCA methodologies and tools
- Developing corrective and preventive action plans

Day 5

Predictive Maintenance Technologies

- Introduction to predictive maintenance techniques and technologies
- Vibration analysis for equipment health monitoring
- Infrared thermography for detecting anomalies and hotspots

Day 6

Maintenance Performance Metrics and KPIs

- Key performance indicators KPIs for measuring maintenance effectiveness
- Implementing performance measurement systems
- Analyzing maintenance data for continuous improvement

Day 7

Maintenance Budgeting and Cost Control

- Budgeting techniques for maintenance activities
- Cost control strategies and optimization
- Total cost of ownership TCO analysis in maintenance decision-making

Day 8

Computerized Maintenance Management Systems CMMS

- Overview of CMMS and EAM software
- Features and benefits of CMMS in maintenance management
- Implementation and utilization of CMMS in real-world scenarios

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Day 9

Maintenance Organization and Team Management

- Organizational structures for maintenance departments
- Roles and responsibilities in the maintenance team
- Effective communication and collaboration in maintenance operations

Day 10

Maintenance Optimization and Continuous Improvement

- Strategies for optimizing maintenance processes and workflows
- Lean maintenance principles and practices
- Continuous improvement methodologies, such as Six Sigma and Kaizen

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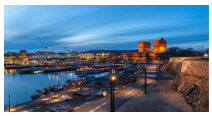
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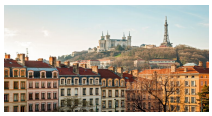
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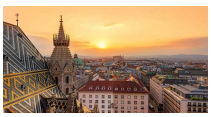
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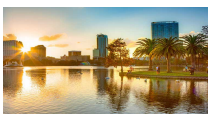
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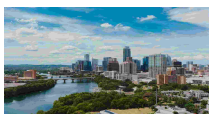
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Head Office: +44 7480 775 526
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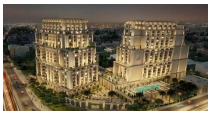

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International House 185 Tower Bridge Road London SE1 2UF United Kingdom

+44 7401 1773 35
+44 7480 775526

Sales@blackbird-training.com

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