





Course: Maintenance Management: Developing & Enhancing Maintenance Strategies

Code	City	hotel	Start	End	price	Hours
546	Brussels (Belgium)	Hotel Meeting Room	2024-07-01	2024-07-12	8450 €	50

INTRODUCTION

This 10-day programme initially looks at all of the core maintenance management disciplines that support effective work planning, scheduling and work control. The second week builds on the foundation knowledge introduced during the first week by introducing participants to Maintenance Auditing and Benchmarking. These key tools can be used to ensure the core disciplines are maintained, to drive improvement, identify best practices, and assist with the formulation of strategies.

This programme will cover:

- Modern Maintenance Management Practices
- Maintenance Policies and Logistics Planning
- Failure Management
- Work Planning, Scheduling and Control
- Information and Performance Management
- Maintenance Auditing & Benchmarking
- Performance Measurement

WHO SHOULD ATTEND?

Professionals who are involved in maintenance planning, scheduling and work control, including planners and users of CMMS. Also, any stakeholders in the Work Planning function would benefit from attending this programme

PROGRAMME OBJECTIVES

Leading industrial organizations are evolving away from reactive ("fix-it-when-it-breaks") management into predictive, productive management ("anticipating, planning, and fix-it-before-it-breaks"). This evolution requires well-planned and executed actions on several fronts.

You will:

• Identify planning best practices and key elements for taking action on them



- Understand how world-class organizations solve common planning problems
- Evaluate your practices compared to those of others
- Improve the use of your information and communication tools
- Improve productivity through use of better, more timely information
- Create and preserve lead-time in work management and use it for planning and scheduling resources
- Improve consistency and reliability of asset information
- Achieve more productive turnarounds
- Optimize preventive and predictive maintenance strategies
- Audit your maintenance operations
- Learn how to conduct a benchmarking study
- Use the results to develop and improvement strategy
- Establish Auditing and Benchmarking as a key element of the maintenance strategy

The programme will impart an understanding of how such techniques can be applied as part of a broad systematic approach to proactively managing and improving maintenance

TRAINING METHODOLOGY

Facilitated by experienced maintenance specialists, this programme will be conducted as highly interactive work session, encouraging participants to share their own experiences and apply the programme material to real-life situations. Case studies from different industries will be investigated. Programme size will be limited to 30 delegates in order to stimulate discussion and efficiency of subject coverage. Each delegate will receive an extensive reference manual, as well as case studies, while worked out solutions will be handed out to the delegates on conclusion of group discussions.

To ensure the concepts introduced during the programme are understood, they will be reinforced through a mix of learning methods, including lecture style presentation, open discussion, case studies, simulations and group work.

PROGRAMME SUMMARY

Week 1 of the programme deals with the essential principles and techniques for effective maintenance management, covering proven techniques for the development of an effective maintenance plan, the planning, scheduling and control of maintenance work, and management reporting and analysis

Week 2 of the programme covers the use and application of a standardised maintenance management audit methodology, consistent with the recognised maintenance excellence framework, to assess the current state of maintenance management strategy implementation, and identify opportunities for improvement. Similarly, participants will learn how to plan, conduct and interpret the results of a maintenance benchmarking study to drive improvement of their maintenance management systems.

PROGRAMME OUTLINE



DAY 1 - MODERN MAINTENANCE MANAGEMENT PRACTICE IN PERSPECTIVE

Maintenance Practice in Perspective

Maintenance in the Business Process

Evolution in Maintenance Management

The Contribution of Maintenance to the achievement of the Business Objectives

Business, Operations and Maintenance Key Performance Area

The Maintenance Objective

Roles and Accountability



DAY 2 - MAINTENANCE POLICIES AND LOGISTICS PLANNING

Equipment Classification and Identification

Functional Location

Equipment Type Classification

Equipment Identification

Part Number and Bill of Material

Documentation Structures

Document Identification and Classification

Maintenance Management Policies

Equipment Criticality Grading

Job Record Policy

Job Information Requirements

Principles of Work Order Design

Maintenance Work Prioritisation

Maintenance Logistics Planning

Logistic Support Analysis

Maintenance Task Detail Planning

Maintenance Work Estimating

Maintenance Levels

Support Documentation

Support Equipment

Personnel and Organisation



DAY 3 - FAILURE MANAGEMENT PROGRAMME DEVELOPMENT

Failure Modes, Effects and Consequences

Equipment Functions and Performance Standards

Functional Failures

Failure Modes

Failure Effects

Consequences of Failure

Failure Management Policies

Age Related Failure Patterns

Random Failure Patterns

Routine Restoration and Discard Tasks

Routine Condition-based Tasks

Failure-finding Tasks

The application of RCM in the Development of Failure Management Policies

Implementing Failure Management Policies

Proposed Routine Maintenance Tasks

Categorising and structuring Routine Maintenance Tasks

Corrective Maintenance Planning

Logistic Requirements Planning



DAY 4 - WORK PLANNING, SCHEDULING AND CONTROL

Definition of Notifications, Defects, Deviations

Notification Process, Roles and Principles

Prioritising Notifications

Weekly Master Schedule

Master Schedule Objectives

Categorise the Outstanding Workload

Determine Resource Availability

-Determine Equipment Non-utilisation Profile

Develop Draft Master Schedule

Conduct Master Schedule Review Meeting

Final Master Schedule and Implementation

Backlog Management



DAY 5 - INFORMATION AND PERFORMANCE MANAGEMENT

Management and Information

Information and Control

Management Levels and Information

Performance Indicators

Performance Indicators

Workload Performance Indicators

Planning Performance Indicators

Effectiveness Performance Indicators

Cost Performance Indicators

Management Reports

DAY 6 - INTRODUCTION AND FOUNDATION CONCEPTS

Introduction to Auditing and Benchmarking

Introduction to Maintenance Processes

Approaches to Maintenance Management and Improvement

Introduction to Maintenance Management Benchmarking Frameworks

DAY 7 - MAINTENANCE AUDITING

Maintenance Performance Measures and Metrics

The Maintenance Auditing Process

Maintenance Auditing Methodology

Conducting a Maintenance Audit

Maintenance Audit Simulation Case Study



DAY 8 - MAINTENANCE AUDITING AND BENCHMARKING

Maintenance Audit Simulation Case Study

Using Maintenance Audit Results to Plan Improvement Strategies

Introduction to Benchmarking

The Maintenance Benchmarking Process

Maintenance Benchmarking Methodology

Benchmarking Tools and Techniques

DAY 9 - MAINTENANCE BENCHMARKING AND PERFORMANCE MEASUREMENT

Benchmarking Tools and Techniques (continued)

Designing and Preparing for a Benchmarking Study

Selecting Benchmarking Partners

Preparing for an conducting the benchmarking visit

Reporting results of Benchmarking and Auditing Studies

The DMG Analysis - Advanced Benchmarking Conducting a Maintenance Benchmarking Study

DAY 10 - AUDITING, BENCHMARKING AND MAINTENANCE IMPROVEMENT

Benchmarking Simulation Case Study

Integrating Benchmarking resulting into improvement and objective setting processes

Integrating Maintenance Auditing and Benchmarking into the Performance Measurement System to establish improvement objectives and strategies

Review of Best Practice Benchmarks and Case Studies

Conclusion



The Scandinavian Academy employs modern methods in training and skills development, enhancing the efficiency of human resource development. We follow these practices:

• Theoretical Lectures:

We deliver knowledge through advanced presentations such as PowerPoint and visual materials,
including videos and short films.

• Scientific Assessment:

 $\circ\,$ We evaluate trainees skills before and after the course to ensure their progress.

• Brainstorming and Interaction:

 We encourage active participation through brainstorming sessions and applying concepts through role play.

• Practical Cases:

• We provide practical cases that align with the scientific content and the participants specific needs.

• Examinations:

• Tests are conducted at the end of the program to assess knowledge retention.

• Educational Materials:

• We provide both printed and digital scientific and practical materials to participants.

• Attendance and Final Result Reports:

• We prepare detailed attendance reports for participants and offer a comprehensive program evaluation.

• Professionals and Experts:

• The programs scientific content is prepared by the best professors and trainers in various fields.

• Professional Completion Certificate:

Participants receive a professional completion certificate issued by the Scandinavian Academy for
Training and Development in the Kingdom of Sweden, with the option for international authentication.

• Program Timings:

 Training programs are held from 10:00 AM to 2:00 PM and include buffet sessions for light meals during lectures.