



Creating Maintenance Excellence Training Course





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Introduction:

Leading industrial organizations are moving away from reactive "fix-it-when-it-breaks" maintenance into predictive and preventive maintenance "anticipating, sophisticated maintenance planning, and fix-it-before-it-breaks" as part of a life cycle-focused Asset Management approach.

This evolution to Maintenance Excellence requires well-planned and executed actions on several fronts. Although maintenance planning plays a critical role in the overall physical asset management processes, many organizations still need help to implement it properly and reap its benefits.

Maintenance Excellence provides excellent opportunities to optimize the performance of your assets and maintenance processes to achieve maximum Return On Investment ROI. By understanding the fundamental process behind maintenance planning and reducing costs and downtime through advanced maintenance management while achieving high levels of safety and quality, you can get the most out of your assets.

This course in Creating Maintenance Excellence introduces participants to the concept of creating Maintenance Excellence. It demonstrates several methodologies' backgrounds and practical applications to achieve the best bottom-line results.

Creating Maintenance Management Excellence:

Enroll in our comprehensive Creating Maintenance Management Excellence Training Course to gain essential skills in maintenance management. This program is ideal for maintenance managers, engineers, and supervisors seeking specialized training and certification in maintenance management.

Throughout this creating maintenance management course, you'll master crucial concepts such as creating maintenance plans and schedules, which are vital for adequate equipment upkeep. You'll also learn to develop preventive maintenance strategies to optimize asset performance and minimize downtime.

Our maintenance excellence program provides practical tools to enhance operational efficiency and extend equipment lifespan. By completing this maintenance management training, you'll earn a maintenance management certificate, validating your expertise in implementing successful maintenance strategies.

Join us to elevate your career and become a proficient maintenance professional. Discover the art of creating a maintenance plan tailored to your organization's needs, ensuring peak equipment performance and operational excellence to start your journey toward maintenance management.

Targeted Groups:

- All Professionals involved in Maintenance Management.
- Professionals involved in Work Planning and Control planners, planning engineers.
- Maintenance Supervisors.
- Maintenance Engineers.
- Maintenance Team Leaders and Managers.
- Operations Team Leaders and Managers.

Course Objectives:

At the end of this creating maintenance management course, the participants will be able to:

- Understand the basic principles of Asset Management as a framework for managing and optimizing maintenance.
- Identify standard maintenance Key Performance Indicators KPIs and develop the maintenance department scorecard.
- Assess the organizational Asset Management maturity and develop a roadmap for improvement.
- Examine the organizational and managerial considerations for highly effective Risk-Based Maintenance.
- Understand life cycle management and how systems engineering and RAMS could support it.
- Determine the Life Cycle Costs of an asset.
- Demonstrate the latest concepts and techniques in Predictive and Smart Maintenance.
- Set up master data to support asset maintenance.
- Facilitate the development and implementation of programmed maintenance.
- Develop task plans and procedures that meet safety, quality, and efficiency criteria.
- Initiate the acquisition of logistics to enable the execution of backlog work.
- Compile a work schedule for a forthcoming period in consultation with stakeholders.
- Produce performance indicator-based reports that expose problem areas.

Targeted Competencies:

At the end of this creating maintenance management course, the participant's competencies will:

- Asset Management: a business-like approach to maintenance management.
- KPIs and the balanced scorecard are used to measure performance.
- Assessing Asset Management maturity and determining the roadmap for improvement.
- Understanding risk and an introduction to a Risk-Based Maintenance approach.
- Life Cycle Management with aspects like Systems Engineering and RAMS requirements.
- Life Cycle Costing.
- The latest concepts and techniques of Predictive and Smart Maintenance.
- The building blocks of an efficient planning function.
- A fast-track programmed maintenance development process.
- Planning work for quality and efficiency.
- Scheduling work in a manner that ensures the continuity of operations.
- Gaining commitment to operations for the maintenance plan and schedule.
- Generating performance indicators that pinpoint problems and opportunities.
- Eliminating equipment defects through detection, disclosure, planning, scheduling, and execution.

Course Content:

Unit 1: Introduction to Asset Management - A Framework for Managing and Optimizing Maintenance:

- Asset Management as a Business Process.
- Asset Management Landscape Model.
- Strategy Framework.
- Line of Sight.
- Asset Management Policy, Asset Management Strategy.
- Strategic Asset Management Plan.
- The Position of Maintenance Management.
- Asset Management Roles on Strategic, Tactical, and Operational Levels.
- ISO 550000 - The International Standard on Asset Management.

Unit 2: Assessing Asset Management Maturity as A Basis for Maintenance Improvement:

- Measuring Performance.
- Leading and Lagging Indicators - KPI - Dashboards.
- Assessments and Benchmarking against International Standards.
- Asset Management Maturity Assessments.
- Asset Management Workbench ISO 55000 Gap Analysis.
- SAM-assessment ISO 55000 Self-assessment.
- Determine the Roadmap for Maintenance Improvement.
- The Business Case for Asset Management Improvement - Cost / Benefit Thinking.
- Implementation Aspects.

Unit 3: Managing Asset Risks - Risk-Based Maintenance RBM:

- Not every failure is critical - the basic principles of risk.
- Risk on a business level.
- Risk matrix, risk register.
- Risk on asset level.
- Failure behavior of systems.
- Choosing the appropriate maintenance tasks for your assets with a Risk-Based approach.

Unit 4: Life Cycle Management:

- Life Cycle Management.
- The Life Cycle of An Asset.
- Demand Forecasting.
- Creation and Acquisition of Assets.
- Systems Engineering Approach.
- RAMS Requirements - Methodologies.
- Life Cycle Costing LCC.
- Disposal and Replacement - Life Time Extension Asset Rationalisation.

Unit 5: Smart Maintenance:

- Understanding Principles of Predictive Maintenance PdM.
- What PdM Technologies to Apply? A short overview of relevant PdM technologies.
- Smart Maintenance - Measuring Asset Performance with Modern Data Technology.
- Data Analysis Aspects.
- Optimization Aspects - Optimizing the Maintenance Strategy.
- Using Decision Support Tools.

Unit 6: The Building Blocks of a Modern Maintenance Management System:

- The 'Asset Healthcare Model'.
- Asset Master Data.
- Organisation Master Data.
- Maintenance Logistics Planning.

Unit 7: Programmed Maintenance Development and Planning:

- Criticality Grading.
- Failure Modes and Effects Analysis.
- Programmed Task Selection Criteria and Tools.
- CMMS Task Plans and Work Orders.
- Corrective Maintenance Task Procedures.

Unit 8: Work Management:

- Work Management Process Model.
- Defect Reporting and Notifications.
- Backlog Control.
- Capacity Planning and Resourcing.
- Schedule with Consensus of Stakeholders.

Unit 9: Shutdown and Turnaround Management:

- Network Planning and Critical Path Scheduling.
- Resource Profile.
- Resource Leveling and Balancing to Optimize the Schedule and Resource Profile.
- Shutdown and Turnaround Progress Tracking and Control.

Unit 10: Performance Management:

- Setting up Performance Indicators and Data Sources.
- Work Management Performance Indicators.
- Asset Maintenance Effectiveness Performance Indicators.
- Cost Control Performance Indicators.
- Planning Performance Indicators.