

Introduction:

Maintenance plays a crucial role as a high-impact factor in business profitability, influencing equipment capacity, product quality, safety, health, environmental factors, and production costs. By implementing world-class maintenance operations, businesses can significantly boost plant profitability while also gaining intangible benefits such as improved customer satisfaction, greater employee pride, and stronger vendor relationships.

Strategic maintenance planning is vital for operational success and is aligned with the goal of achieving world-class performance. The maintenance organization and strategy must be an integral part of this pursuit, driven by business objectives and aligned with other functions across the enterprise. The strategy should incorporate both technical and managerial approaches at all levels of the organization, ensuring maximum maintenance effectiveness while minimizing lifecycle costs for new assets and controlling operating costs for existing assets.

Business goals place organizational and technical demands on the enterprise. As a result, the strategy must integrate and guide the implementation of technical and managerial plans at all levels of the organization and its processes.

The strategy should represent the best available technology, practices, and procedures, all relevant to the organization's business goals. It must define the necessary processes and practices required to achieve the highest degree of maintenance management and effectiveness, minimizing lifecycle costs for new assets and managing operating expenses for existing investments.

Additional Module: Strategic Maintenance Management

This additional module focuses on strategic maintenance solutions that align maintenance activities with the broader business strategy. Participants will learn how to develop a cohesive management and maintenance plan, ensuring they can implement a forward-thinking approach to maintenance management. A key feature of this module is the exploration of certification opportunities, such as the maintenance planning certificate, which can serve as a stepping stone for career advancement in strategic maintenance planning.

Target Audience:

- Planners
- Maintenance and Reliability Engineers
- Planning Engineers

- Maintenance Supervisors
- Maintenance Engineers
- Maintenance Team Leaders and Managers
- Operations Team Leaders and Managers
- Technical Support Staff

Course Objectives:

Upon completing this course, participants will be able to:

1. Understand the essential role of maintenance in achieving business objectives.
2. Develop a strategic framework for effective maintenance management.
3. Understand the roles, processes, and procedures necessary for organizational effectiveness.
4. Define performance measurement metrics for management and technical effectiveness at all organizational levels.
5. Improve equipment performance and ensure the longevity of assets.

Targeted Competencies:

By the end of this course, participants will be able to:

1. Establish an efficient planning function for maintenance activities.
2. Apply an object-based approach to programmed maintenance development.
3. Plan work for safety, quality, and efficiency.
4. Schedule work with a focus on maintaining operational continuity.
5. Link operations with the maintenance schedule for better coordination.
6. Produce concise performance indicator reports to guide continuous improvement.
7. Eliminate equipment defects through a thorough process.

Course Content:

Unit 1: Maintenance Objectives and Strategy

- The evolving relevance of maintenance in modern business.
- The critical role of maintenance in achieving business goals.
- Cost reduction and performance enhancement through maintenance.
- Analyzing downtime costs accurately.
- Assessing the cost and value of maintenance.
- The impact of maintenance on the bottom line.
- Evolution of maintenance: historical context and contemporary approaches.
- Types of maintenance and their applications.
- Developing a comprehensive and robust maintenance plan.
- Striving for world-class reliability and maintenance practices.

Unit 2: World-Class Standards - Comparing Your Plant With The Best

- Benchmarking and assessing maintenance performance.
- Conducting a self-assessment of maintenance practices.
- Measuring and managing progress towards operational excellence.
- Evaluating Overall Equipment Effectiveness (OEE).

Unit 3: Implementing New Management Approaches

- Implementing a Failure Management Programme (Reliability-Centered Maintenance).
- Adopting Total Productive Maintenance (TPM).
- Life-cycle costing considerations.

- Maximizing the benefits of Computerized Maintenance Management Systems (CMMS).
- Understanding common reasons for CMMS implementation failures.

Unit 4: Optimizing Maintenance Organization

- Striving for operational excellence in maintenance management.
- Synchronizing operations with maintenance for improved production.
- Evaluating whether operations can manage maintenance effectively.
- Lessons for aligning operations and maintenance functions.
- Assessing the 70/30 phenomenon in operations and maintenance management.

Unit 5: Contract Maintenance

- Exploring the myths and legends of maintenance management.
- Establishing a framework for best maintenance practices.
- Analyzing case studies to understand successful maintenance management strategies.