Introduction:
Maintenance plays a significant role in driving business profitability by influencing equipment capacity, product quality, safety, health, environmental impact, and production costs. A world-class maintenance operation brings tangible results, such as improved plant profits, as well as intangible benefits like enhanced customer satisfaction, employee pride, and stronger vendor relationships.

Effective maintenance planning is vital for successful operations. To achieve a world-class enterprise, the maintenance organization and strategy must play a central role. This strategy must align with business objectives and cannot be viewed in isolation but as an integral part of a comprehensive approach to high-performance operations.

Business goals will create both organizational and technical demands. Thus, the maintenance strategy must integrate and guide the implementation of both technical and managerial strategies at all organizational and process levels.

The strategy must incorporate the best available technology, procedures, and practices that are relevant to the organization's business objectives. It must outline the processes, procedures, and practices needed to achieve optimal maintenance management and effectiveness while minimizing the total life-cycle costs of new assets and ongoing operating expenses of existing investments.

Target Audience:
This course is designed for individuals involved in the planning, supervision, or management of maintenance activities, as well as anyone interested in understanding the vital role of maintenance within an organization.

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

1. Understand the crucial role maintenance plays in achieving business objectives.
2. Learn how to create a strategic framework for effective maintenance management.
3. Understand the roles, processes, and procedures required to ensure organizational effectiveness.
4. Learn how to set performance measurement parameters at all organizational levels.
5. Enhance overall equipment performance while ensuring the long-term health of assets.

Targeted Competencies:

By the end of this course, participants will have developed the following competencies:

1. Maintenance planning and scheduling.
2. Maintenance theory and practice.
3. Advanced maintenance management.
4. Maintenance work processes.
5. Influence and communication skills.
6. Financial evaluation.
7. Safety principles and theories.
8. Performance management.

Course Content:

Unit 1: Maintenance Objectives and Strategy

- Relevance of changes to maintenance.
- The role of maintenance in modern business.
- Cost reduction and performance improvement.
- Assessing actual downtime costs.
- Maintenance costs and their value.
- Benefits impacting the bottom line.
- The evolution of maintenance – history and modern practices.
- Historical overview of maintenance and types of maintenance.
- Maintenance planning.
- Achieving world-class reliability and maintenance.

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

- Benchmarking and performance assessment in maintenance.
- Maintenance self-assessment.
- Managing and measuring progress toward excellence.
- Overall equipment effectiveness.

Unit 3: Implementing New Management Approaches

- Failure management programs (Reliability-Centered Maintenance).
- Total Productive Maintenance.
- Life-cycle costing techniques.
- Maximizing the potential of Computerized Maintenance Management Systems (CMMS).
- Common challenges in CMMS implementation.

Unit 4: Optimizing Maintenance Organization

- Excellence in operations.
- Integrating operations and maintenance to drive production.
- Assessing whether operations can manage maintenance.
- Practical lessons for operations and maintenance alignment.
- The 70/30 phenomenon in maintenance.
- Deciding between contract and in-house maintenance.
- Legends in maintenance management.

Unit 5: Maintenance Planning and Control

- The workflow process in maintenance.

- Work requests and work orders.
- The planning and scheduling of work.
- Managing maintenance backlogs.
- Effective resource management.
- Spare parts management.
- Maintenance master budget creation.
- Capital budgeting in maintenance.
- Maintenance initiatives and strategies.
- Asset replacement analysis.
- Managing the operating budget for maintenance.
- Encouraging innovation and creativity within maintenance.

Certificate in Maintenance Management:
This course offers a certification in maintenance management upon successful completion. Participants will gain deep insights into maintenance planning and scheduling, learning best practices and acquiring valuable skills to create effective management and maintenance plans.

For individuals looking to enhance their careers, this course provides critical knowledge about maintenance planning and management. The integration of theory with hands-on application will prepare participants to contribute effectively to their organization's success in maintenance management and scheduling.