



Maintenance & Reliability Management

Strategic Spare Parts Management for Equipment Reliability

Course Introduction

Strategic spare parts management is essential for ensuring the smooth operation of equipment and maximizing its reliability. Proper management helps prevent downtime, reduces unnecessary costs, and ensures that critical components are always available when needed. Without effective spare parts strategies, organizations can face equipment failures, delays, and increased operational expenses.

This program covers all key aspects of spare parts management, including forecasting, inventory control, cost optimization, and supplier management. Participants will also learn how spare parts directly impact equipment reliability and how to continuously improve the spare parts strategy for optimal performance

Target Audience

This course is designed for maintenance managers, inventory specialists, procurement professionals, and anyone responsible for managing spare parts in a maintenance or operations environment.

Learning Objectives

- Understand the role of strategic spare parts management in enhancing equipment reliability.
- Learn techniques for forecasting and planning spare parts demand accurately.
- Gain insights into effective spare parts inventory management practices.
- Develop skills to optimize spare parts costs without compromising equipment reliability.

- Learn how to use spare parts management data to drive continuous improvement and better decision-making.

Course Outline

• 01 DAY ONE

Introduction to Spare Parts Management

- What is strategic spare parts management?
- The role of spare parts in equipment reliability
- Types of spare parts and their classifications
- Importance of a spare parts inventory system
- Impact of spare parts management on operational efficiency
- Overview of spare parts sourcing and suppliers
- Challenges in managing spare parts effectively

• 02 DAY TWO

Forecasting and Demand Planning for Spare Parts

- How to forecast spare parts demand
- Techniques for analyzing historical usage data
- The role of asset criticality in demand planning
- How to use failure modes to predict spare parts needs
- Creating a spare parts demand plan
- Balancing inventory levels to avoid stockouts or overstocking
- Managing lead times and supplier reliability in planning

• 03 DAY THREE

Spare Parts Inventory Management

- Organizing and categorizing spare parts inventory
- Tracking and managing inventory in real-time
- Key performance indicators (KPIs) for inventory management
- Implementing a just-in-time (JIT) inventory strategy
- Safety stock levels and re-ordering strategies
- Using automated tools and software for inventory control
- Optimizing space and storage for spare parts

• 04 DAY FOUR

Cost Optimization and Supplier Management

- How spare parts affect overall maintenance costs
- Strategies for reducing spare parts costs without compromising reliability
- Evaluating and selecting suppliers for spare parts
- Negotiating contracts and managing supplier relationships
- Performance-based agreements with suppliers
- The role of bulk purchasing and long-term contracts in cost savings
- Managing obsolescence and phasing out outdated spare parts

• 05 DAY FIVE

Spare Parts for Equipment Reliability and Continuous Improvement

- The link between spare parts availability and equipment reliability
- Using spare parts management data for reliability analysis
- Proactive maintenance planning with spare parts
- Monitoring and adjusting spare parts strategies based on performance
- Continuous improvement processes in spare parts management
- The role of feedback loops in refining spare parts strategies

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 21, 2025	April 25, 2025	5 days	4250.00 \$	UAE - Dubai
July 7, 2025	July 11, 2025	5 days	5950.00 \$	switzerland - Geneva
Dec. 1, 2025	Dec. 5, 2025	5 days	2150.00 \$	Virtual - Online