



Planning of Commissioning Spares & Maintenance Inventory

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Introduction:

Operational personnel, procurement teams, engineers, and reliability professionals are increasingly being held accountable for materials and spare parts inventory management and in response they need to gain a better understanding of materials and spare parts inventory management principles and practices. This course focuses on engineering materials and maintenance spares inventory, while providing broader coverage of the issues faced in managing this inventory. This course will be useful to anyone in industry who needs or wants to optimize spare parts inventory and increase cash flow.

Who Should Attend?

Warehouse and Financial Specialists, Account and Contract Specialists, Warehouse Engineers, Supply Chain Managers and Professionals, Logistic Administrators, Logistics Planning and Inventory Managers, Purchasing and Procurement Managers and professionals, Maintenance engineers, Projects and Planning Engineers, Electrical Engineers, Mechanical Engineers, oil & gas industry personnel

Course Objectives:

By the end of this course delegates will be able to:

- Understand planning and managements of spare parts
- Prepare and manage a program for spare parts supply
- Reduce work cycle for inventory, purchasing and supply of spare parts

- Understand the degree of critical plant and field spare parts and its impact
- Understand the fundamental to integrating maintenance and inventory management modules

Course Outline:

Linking Maintenance and Materials Management

- Linking the maintenance and materials management process
- The foundation for Maintenance, Repair and Operations (MRO) inventory
- What is the impact of materials management on maintenance?
- Ownership of the MRO management process and resources
- How to link maintenance and materials management
- Designing the materials management process

Purchasing Parts

- Purchasing parts for the MRO stores
- Overview of materials procurement process in maintenance
- Categorizing materials
- Supply strategy

Layout and Security

- Stores layout, security and materials handling
- Benefits of an optimized layout and physical flow
- Factors that influence layout optimization
- Techniques and tools for better layout and physical flows
- Technical trends in storage and material handling

Information Systems

- Information systems for stores inventory management
- Basic considerations for inventory management system
- Integration with other systems
- A prerequisite for systems success—identification of inventory items

- The challenge of inventory record accuracy
- Sustaining accurate inventory data
- How to use cycle counting

Inventory Controls

- Inventory statistical control: optimizing the investment for parts
- Which techniques and tools can be used for effective replenishment of materials?
- ABC analysis
- How to decide order levels and timing
- How to decide order quantity
- Do we have to apply the same techniques and tools for all the materials?
- How can we identify material types and what is the best way for each material type?
- How to decide whether the materials are obsolescent

Managing Repairable

- Managing the repairable queue to minimize investment and maximize availability
- Effective planning and scheduling methods for better cost efficiency and inventory availability
- Methods for handling repairable from usage to re-usage

Capital Projects

- Handling direct charge and capital project items
- What material types should be treated in different ways—capital, direct charge, inventory?
- Definitions of capital spares and direct charge
- Which materials are best classed as direct charge?
- How to handle direct charge materials
- What is a capital project item?
- How to handle capital project items

Service Improvement

- Strategic inventory cost reduction and service level improvement
- How to reduce inventory cost while maintaining service levels
- How to improve service levels

Managing Personnel

- Organizing and managing stores personnel
- What is the best organization structure for better materials management?
- Key considerations in human resources management

Outsourcing Stores

- Outsourcing stores: MRO distributors vs. integrators
- What can we outsource?
- How can we outsource effectively

Benchmarking Performance

- Measuring and benchmarking inventory and stores performance
- What should be measured as key performance indicators?
- How to measure them?
- Best practices in key performance indicators