

REDUCING MAINTENANCE / MRO INVENTORIES

“Optimizing Inventory Levels for Efficient Maintenance and Operations”

Schedule

Date	Venue	Fees (Face-to-Face)
22 - 23 Apr 2026	Dubai, UAE	USD 1995 per delegate

► Available delivery methods: Face-to-Face & Online Training

Introduction

Maintenance, Repair, and Overhaul (MRO) inventory management is a critical component of operational efficiency in industries where uptime and equipment reliability are key. Inadequate or excessive MRO inventories can result in higher operational costs, inefficient use of resources, and extended downtime. This 2-day course focuses on strategies and best practices for optimizing MRO inventories, ensuring that organizations can effectively balance inventory levels, reduce waste, and improve overall maintenance processes. Participants will gain insights into inventory management techniques that minimize excess stock while ensuring that critical spare parts are available when needed. They will also explore the role of predictive maintenance, supplier management, and data analysis in achieving optimal MRO inventory levels. The course will provide practical tools for implementing MRO inventory strategies that reduce costs and enhance operational efficiency.

Objectives

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

- Understand the importance of efficient MRO inventory management.
- Identify strategies to reduce MRO inventory levels while maintaining operational reliability.
- Apply techniques to forecast demand and optimize stock levels for critical spare parts.
- Implement cost-saving measures for MRO inventory management without compromising on equipment uptime.
- Leverage data analysis and supplier relationships to enhance MRO inventory processes.

Why Attend

- Learn strategies for balancing MRO inventory levels to optimize costs and maintain equipment reliability.
- Gain hands-on experience in forecasting MRO inventory demand and improving replenishment processes.
- Understand how to streamline supplier relationships and reduce lead times for critical spare parts.
- Explore techniques to reduce waste and improve operational efficiency in maintenance activities.
- Develop skills in using data-driven insights to manage and optimize MRO inventories.

Target Audience

This program is designed for:

- Maintenance managers and supervisors
- Inventory and supply chain managers
- MRO coordinators and logistics personnel
- Operations managers in industries with high maintenance demands
- Procurement professionals involved in managing MRO supplies and inventory

Individual Benefits

Key competencies that will be developed include:

- Improved understanding of the key factors in MRO inventory management.
- Ability to reduce excess MRO inventory while ensuring critical parts availability.
- Expertise in demand forecasting and inventory replenishment for MRO materials.
- Proficiency in supplier management and reducing lead times for MRO components.
- Enhanced capability to drive cost savings and improve maintenance operations.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Optimized MRO inventory levels, leading to reduced storage and operational costs.
- Improved inventory forecasting, ensuring that critical spare parts are always available when needed.
- Strengthened supplier relationships for better lead times and reliability in MRO supply chains.
- Streamlined maintenance processes with reduced downtime and more efficient use of resources.
- A more cost-effective approach to MRO inventory management without compromising equipment reliability.

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - In-depth discussions on MRO inventory management principles and strategies.
- Case Studies - Real-world examples of organizations successfully optimizing MRO inventories.
- Workshops - Hands-on exercises focused on forecasting, demand planning, and inventory optimization for MRO.
- Peer Exchange - Group discussions to share challenges and solutions in managing MRO inventories.
- Tools - Practical tools for demand forecasting, inventory tracking, and cost reduction in MRO inventory management.

Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to MRO Inventory Management

- Module 1: Understanding MRO Inventory and Its Impact on Operations (07:30 – 09:30)
 - The role of MRO inventories in industrial operations
 - The impact of MRO stock levels on operational efficiency and costs
 - Key components of MRO inventory: spare parts, tools, consumables
- Module 2: Strategies for Reducing MRO Inventory (09:45 – 11:15)
 - Lean inventory techniques for MRO materials
 - Optimizing stock levels through demand forecasting
 - Strategies to minimize excess inventory and reduce waste
- Module 3: Forecasting and Demand Planning for MRO (11:30 – 01:00)
 - Techniques for accurate MRO demand forecasting
 - Identifying demand patterns for critical spare parts
 - Integrating predictive maintenance data into MRO planning

Day 2: Optimizing MRO Supply Chain and Inventory Control

- Module 1: Supplier Relationship Management for MRO Inventory (07:30 – 09:30)
 - The role of suppliers in reducing lead times and improving stock levels
 - Building strong supplier partnerships for MRO materials
 - Managing emergency orders and reducing procurement costs
- Module 2: Using Data and Technology to Improve MRO Inventory (09:45 – 11:15)
 - Implementing inventory management systems (e.g., ERP, RFID) for MRO
 - Leveraging data analytics to optimize ordering and stock levels
 - Using historical data to inform future MRO inventory strategies
- Module 3: Best Practices in MRO Inventory Management (11:30 – 01:00)
 - Developing a comprehensive MRO inventory strategy
 - Tracking and controlling MRO stock levels through cycle counts and audits
 - Continuous improvement in MRO processes to reduce costs and enhance reliability

Certification

Upon completing the training course, participants will receive a Certificate of Completion in Reducing Maintenance / MRO Inventories, validating their expertise in optimizing MRO inventory management, reducing costs, and improving operational efficiency.

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