MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

MRO INVENTORY MANAGEMENT & OPTIMAZATION

"Strategies to Reduce Costs and Ensure Availability of Critical Spare Parts and Materials"

Schedule

Date	Venue	Fees (Face-to-Face)
03 - 04 Aug2026	Dubai, UAE	USD 1995 per delegate

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

Introduction

Maintenance, Repair, and Operations (MRO) inventory plays a critical role in supporting uptime, reliability, and safety across asset-intensive industries. Yet, MRO inventory is often overlooked—resulting in excess stock, hidden shortages, and inefficiencies.

This focused course equips professionals with practical methods to manage and optimize MRO stock, ensuring availability of critical items while reducing holding costs. Participants will explore classification, criticality analysis, reordering strategies, and performance metrics for smarter inventory control.

Objectives

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

- Understand the unique characteristics and challenges of MRO inventory
- Apply ABC and criticality classification techniques to spare parts
- Establish reorder points and safety stock levels using data-driven methods
- Implement inventory control and rationalization strategies
- Enhance visibility, accuracy, and performance of MRO stores
- Reduce obsolescence, duplication, and working capital waste

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Why Attend

- Control MRO inventory costs without sacrificing service levels
- Apply industry best practices for spare parts management
- Improve collaboration between maintenance, procurement, and stores
- Reduce downtime risk from part stockouts or mismatches
- Gain practical tools to drive data-based inventory decisions

Target Audience

This program is designed for:

- Maintenance and Reliability Engineers
- Inventory and Warehouse Managers
- Procurement and Supply Chain Officers
- Plant Operations and Asset Managers
- Anyone involved in MRO materials or spare parts planning

Individual Benefits

Key competencies that will be developed include:

- Spare parts demand forecasting and inventory planning
- Inventory segmentation using ABC/XYZ/VED analysis
- Setting reorder points and safety stock scientifically
- Master data cleansing and part catalog standardization
- Identifying and eliminating non-moving or obsolete items

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced inventory carrying costs and space requirements
- Improved spare part availability and equipment uptime
- Enhanced coordination between technical and supply functions
- Better decisions using item data, usage trends, and KPIs
- Increased ROI from inventory reduction and reliability gains

Instructional Methodology

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

- Strategy Briefings – MRO inventory frameworks, classifications, and KPIs
- Case Studies – Industry examples of inventory optimization success
- Workshops – ABC/VED analysis, reorder point calculation
- Peer Exchange – Spare part planning challenges and solutions
- Tools – Replenishment models, stock rationalization checklists

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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: Fundamentals of MRO Inventory Management

- Module 1: MRO Inventory Characteristics and Challenges (07:30 – 09:30) • MRO vs production inventory • Causes of excess and shortage in spare parts
- Module 2: Classification and Criticality (09:45 – 11:15) • ABC/XYZ/VED analysis • Linking criticality to asset risk and uptime
- Module 3: Demand Forecasting and Stock Policies (11:30 – 01:00) • Usage-based forecasting for slow-moving items • Reorder points, EOQ, and safety stock
- Module 4: Workshop – Perform ABC and Criticality Matrix (02:00 – 03:30) • Segmenting a sample item list and setting policies

Day 2: Optimization Strategies and Inventory Control

- Module 5: Inventory Optimization Models (07:30 – 09:30) • Min-max, ROP-ROQ, and service level-based models
- Module 6: Obsolescence, Surplus, and Rationalization (09:45 – 11:15) • Identifying non-moving and redundant stock • Disposal, transfer, and catalog cleansing
- Module 7: KPIs and Continuous Improvement (11:30 – 01:00) • Fill rate, stockouts, inventory turns, accuracy rate
- Module 8: Final Workshop – Inventory Optimization Plan (02:00 – 03:30) • Action plan for MRO improvements in participants' organizations

Certification

Participants will receive a Certificate of Completion in MRO Inventory Management & Optimization, validating their competence to apply best practices in classifying, controlling, and optimizing spare parts and maintenance inventory for improved performance and cost efficiency.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation's unique goals.

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