MAWA EVENTS

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

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

INTEGRATED INVENTORY MANAGEMENT FOR MRO MATERIALS

"Optimize Maintenance, Repair & Operations (MRO) Inventory for Reliability and Cost Efficiency"

Schedule

Date	Venue	Fees (Face-to-Face)
29 – 30 Sep 2026	Muscat – Oman	USD 1995 per delegate

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

Introduction

Maintenance, Repair, and Operations (MRO) materials often account for a significant portion of inventory investment but are frequently mismanaged due to their unpredictable demand and wide variety. Poor MRO inventory practices can lead to excessive working capital, production downtime, and procurement inefficiencies.

This course provides participants with practical strategies to streamline MRO inventory management, improve stock accuracy, and ensure the right parts are available at the right time. The training integrates planning, classification, forecasting, and governance approaches aligned with industry best practices.

Objectives

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

- Understand the unique challenges and characteristics of MRO inventory
- Classify and control MRO stock using ABC, VED, and criticality analysis
- Optimize inventory levels using forecasting and consumption-based strategies
- Improve inventory accuracy and eliminate obsolete/spare part excesses
- Coordinate effectively across maintenance, procurement, and stores functions

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Why Attend

- Learn how to reduce inventory costs without compromising equipment uptime
- Get practical tools for managing spare parts, critical items, and stockouts
- Understand how to implement integrated systems for MRO governance
- Boost reliability by ensuring timely part availability and minimizing delays
- Drive data-based decision-making across inventory, maintenance, and procurement

Target Audience

This program is designed for:

- Maintenance planners, inventory controllers, and MRO coordinators
- Warehouse and supply chain professionals managing industrial spare parts
- Maintenance and operations engineers
- Procurement and materials management teams in manufacturing, oil & gas, utilities, and process industries

Individual Benefits

Key competencies that will be developed include:

- Inventory optimization and spare parts categorization
- Demand forecasting and reorder strategy planning
- MRO inventory performance measurement
- Cross-functional communication and process alignment
- CMMS data management and part master standardization

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced inventory costs and fewer emergency procurements
- Improved equipment availability and maintenance scheduling
- Greater alignment between maintenance and supply chain objectives
- Higher data accuracy and inventory control in ERP/CMMS systems
- Streamlined MRO supply processes and vendor collaboration

Instructional Methodology

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

- Strategy Briefings – MRO inventory principles, KPIs, and industry benchmarks
- Case Studies – Real-world spare parts challenges and resolution methods
- Workshops – Hands-on exercises in classification, optimization, and scenario planning
- Peer Exchange – Discussions on internal practices and operational barriers
- Tools – Templates for MRO analysis, inventory audits, and replenishment planning

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Course Outline

DETAILED 2-DAY 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: The MRO Inventory Challenge (07:30 – 09:30) • Understanding MRO's role in reliability and operations • Cost and risk implications of poor MRO practices • Defining key MRO categories and common inefficiencies
- Module 2: Spare Parts Classification & Segmentation (09:45 – 11:15) • ABC, XYZ, VED, and criticality-based models • Obsolete, slow-moving, and critical spares • How to segment and prioritize MRO items
- Module 3: Forecasting and Replenishment Strategies (11:30 – 01:00) • Demand estimation approaches for irregular usage • Setting reorder points and safety stock levels • Consumption-based vs. predictive replenishment
- Module 4: Workshop – Inventory Segmentation Exercise (02:00 – 03:30) • Participants classify MRO items based on a real-world dataset

Day 2: Optimization, Systems, and Governance

- Module 1: Inventory Optimization and Rationalization (07:30 – 09:30) • Identifying excess, obsolete, and duplicate items • Stock rationalization and clean-up techniques • Balancing service level vs. inventory investment
- Module 2: Data Integrity and Master Records (09:45 – 11:15) • Standardizing part descriptions and units of measure • CMMS/ERP integration and master data governance • Avoiding duplicate entries and catalog inflation
- Module 3: Cross-Functional Coordination (11:30 – 01:00) • Maintenance-procurement-warehouse collaboration • KPI alignment and communication flows • Enhancing stakeholder accountability
- Module 4: Final Planning & Performance Metrics (02:00 – 03:30) • Developing KPIs for MRO inventory control • Action plan for improvement and implementation

Certification

Participants will receive a Certificate of Completion in Integrated Inventory Management for MRO Materials, confirming their ability to manage spare parts inventory efficiently and align MRO practices with reliability and operational excellence.

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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