MAWA EVENTS

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

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WAREHOUSE OPERATIONS & SPARE PARTS INVENTORY CONTROL & OPTIMIZATION

"Master the Operational and Strategic Practices for Efficient Spare Parts Warehousing and Inventory Performance"

Schedule

Date	Venue	Fees
09 – 13 Feb 2026	Dubai, UAE	USD 3,495 per delegate
01 – 05 Mar 2026	Online	USD 1,500 per delegate
12 – 16 Apr 2026	Doha, Qatar	USD 3,495 per delegate
10 – 14 May 2026	Riyadh, KSA	USD 3,495 per delegate
10 – 14 Aug 2026	Dubai, UAE	USD 3,495 per delegate
25 – 29 Oct 2026	Riyadh, KSA	USD 3,495 per delegate

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

Introduction

Spare parts management is one of the most complex areas of inventory and warehouse operations, often involving high-value, low-turnover items critical for maintenance and uptime. Inefficient practices can lead to part obsolescence, overstocking, high holding costs, and equipment downtime.

This 5-day practical course is designed to help warehouse and inventory professionals develop the skills to optimize spare parts storage, improve retrieval efficiency, and apply best practices in demand forecasting, classification, and lifecycle control. Participants will learn to streamline warehouse layouts, reduce slow-moving stock, and implement controls tailored to spare parts management challenges.

Objectives

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

- Understand the unique characteristics and challenges of spare parts inventory
- Plan and manage effective warehouse layouts for parts of varied size and value
- Apply ABC, FSN, and criticality analysis to classify spare parts
- Implement cycle counting, stock audits, and aging inventory controls
- Develop replenishment models that align with maintenance schedules
- Improve service levels and reduce stockouts without over-investing in inventory

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Why Attend

- Learn industry best practices for organizing and controlling spare parts inventory
- Optimize space, cost, and service in technical stores and maintenance warehouses
- Improve accuracy, traceability, and issue-return processes
- Prevent losses due to aging, obsolescence, and misclassification
- Gain practical tools to support warehouse audits and spare parts optimization

Target Audience

This program is designed for:

- Warehouse and store managers
- Inventory and materials control staff
- Maintenance and spare parts planners
- Technical storekeepers and logistics professionals
- Engineers and maintenance personnel responsible for MRO inventory

Individual Benefits

Key competencies that will be developed include:

- Classification and optimization of slow-moving and critical parts
- Inventory recording, tracking, and auditing
- Effective warehouse layout planning for parts storage
- Lifecycle analysis and obsolescence prevention
- Improved spare parts request, issue, and return processing

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved warehouse productivity and space utilization
- Lower inventory holding costs with minimal stockouts
- Better alignment between inventory and maintenance demand
- Enhanced asset availability and reduced downtime
- Strengthened spare parts governance and record accuracy

Instructional Methodology

The course follows an interactive and solution-driven format:

- Briefings – Theory and frameworks for spare parts and technical warehousing
- Case Studies – Issues in spare parts excess, aging stock, and traceability failures
- Workshops – Classification, demand analysis, reorder point setting
- Peer Exchange – Industry comparisons and participant-led discussions
- Tools – Spare parts matrix templates, stock audit sheets, and bin card samples

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Course Outline

DETAILED 5-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: Spare Parts Inventory Fundamentals

- Module 1: Characteristics of Spare Parts Inventory (07:30 – 09:30) • Types of spare parts: critical, fast/slow-moving, obsolescent • Spare parts lifecycle and maintenance dependency
- Module 2: Stock Keeping and Data Accuracy (09:45 – 11:15) • Bin cards, tagging, barcoding, ERP integration • Master data management for spares
- Module 3: Warehouse Layout for Spare Parts (11:30 – 01:00) • Zoning by frequency, size, and temperature sensitivity • Storing irregular, bulky, or fragile parts
- Module 4: Workshop – Technical Stores Layout Planning (02:00 – 03:30) • Participants redesign a parts warehouse layout based on case data

Day 2: Classification and Demand Analysis

- Module 1: Spare Parts Classification Systems (07:30 – 09:30) • ABC, FSN, XYZ, VED, and SDE models • Multi-dimensional inventory categorization
- Module 2: Forecasting and Demand Planning (09:45 – 11:15) • Maintenance-driven vs. consumption-driven demand • Predictive modeling and lead time buffers
- Module 3: Replenishment Models and EOQ (11:30 – 01:00) • Minimum–maximum systems, safety stock, reorder points
- Module 4: Workshop – Spare Parts Classification Exercise (02:00 – 03:30) • Teams apply classification logic to a real dataset

Day 3: Inventory Optimization and Control

- Module 1: Reducing Surplus and Obsolescence (07:30 – 09:30) • Slow/non-moving stock identification • Cannibalization, resale, and disposal strategies
- Module 2: Cycle Counting and Audits (09:45 – 11:15) • Count frequency by criticality and value • Investigating variances and improving accuracy
- Module 3: KPI Development for Spare Parts (11:30 – 01:00) • Stock turnover, fill rate, service level, inventory age
- Module 4: Workshop – KPI Dashboard Design (02:00 – 03:30) • Participants build an inventory monitoring dashboard

Day 4: Process Optimization and Issue Control

- Module 1: Receipt, Issue, and Return Processes (07:30 – 09:30) • Gatekeeping, tagging, quality control • Return-to-stock procedures and issue logs
- Module 2: Spare Parts Storage Safety and Compliance (09:45 – 11:15) • Chemical, flammable, and hazardous parts handling • Physical safeguards and labeling standards
- Module 3: Vendor and Repairable Parts Management (11:30 – 01:00) • Repair cycle tracking, warranty monitoring, core returns
- Module 4: Workshop – Inventory Process Mapping (02:00 – 03:30) • Participants design workflows for receiving and issuing spares

Day 5: Governance, Technology & Final Planning

- Module 1: Policies and SOPs for Spare Parts Management (07:30 – 09:30) • Access control, roles, authority levels • Governance and audit readiness
- Module 2: Spare Parts and WMS/ERP Integration (09:45 – 11:15) • Inventory modules in SAP, Oracle, and Maximo • Barcode, RFID, and scanning tools
- Module 3: Final Project – Spare Parts Optimization Plan (11:30 – 01:00) • Teams develop full inventory optimization recommendations
- Module 4: Presentations and Course Wrap-Up (02:00 – 03:30) • Team presentations and feedback

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Certification

Participants will receive a Certificate of Completion in Warehouse Operations & Spare Parts Inventory Control & Optimization, recognizing their ability to manage spare parts stores and optimize inventory levels in line with maintenance and operational needs.

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.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**