

SPARES MANAGEMENT FOR HEAVY INDUSTRIES

“Optimizing Spare Parts Strategy to Minimize Downtime and Maximize Asset Reliability”

Schedule

Date	Venue	Fees (Face-to-Face)
04 – 06 Mar 2026	Dubai, UAE	USD 2495 per delegate

Introduction

Heavy industries such as oil & gas, mining, manufacturing, and utilities rely heavily on high-value equipment and infrastructure. Unplanned downtime due to unavailability of critical spares can lead to major productivity losses, financial penalties, and safety risks. This hands-on, three-day course provides inventory, procurement, and maintenance professionals with strategies to manage spares effectively in asset-intensive environments. Participants will explore spare part classification, risk-based stocking, MRO integration, and system-based control to support high uptime, cost control, and operational continuity.

Objectives

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

- Define and classify spares based on criticality, consumption, and lead time.
- Align spare part stocking with asset reliability strategies.
- Coordinate between maintenance, engineering, and supply chain teams.
- Minimize stockouts and reduce overstock through demand analysis.
- Apply CMMS and ERP practices for visibility and planning.
- Develop audit-ready processes for high-value and critical spares

Why Attend

- Reduce equipment downtime caused by poor spare parts planning.
- Avoid financial waste through optimized inventory levels.
- Improve reliability and operational readiness across heavy asset operations.
- Gain techniques to integrate maintenance and materials strategies.
- Build practical frameworks for spare part documentation, traceability, and control.

Target Audience

This program is designed for:

- Maintenance, reliability, and planning engineers
- Materials, inventory, and warehouse professionals
- MRO and procurement specialists
- Asset management and plant operations leaders
- Engineering and technical support professionals in heavy industry

Individual Benefits

Key competencies that will be developed include:

- Spare parts strategy and demand modeling
- Criticality ranking and inventory planning
- Lifecycle alignment and obsolescence control
- ERP and CMMS data coordination
- Cross-functional collaboration in MRO

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced risk of equipment failure due to unavailable spares
- More accurate forecasting and inventory optimization
- Improved reliability-centered spares support
- Better control over high-value spare part movement
- Greater synergy between maintenance and supply chain

Instructional Methodology

- Strategic Lectures – Core principles of spare parts planning and risk alignment
- Group Exercises – BOM structuring, classification schemes, reorder logic
- Tools – Spare audit templates, criticality grids, reorder point calculators
- Case Studies – Equipment failures and spare part shortages
- Simulations – Emergency sourcing, slow-moving stock decisions
- Templates – Stock status reporting, parts master file structuring

MAWA EVENTS

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Course Outline

Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 2–3 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Spare Parts Strategy and Criticality Planning

- **Module 1: Spare Parts in Heavy Industry Context (07:30 – 09:30)**
 - Role of spares in asset-intensive operations
 - Failures caused by poor spares management
 - Strategic vs. operational spare parts
- **Module 2: Spare Part Classification and Prioritization (09:45 – 11:15)**
 - ABC, VED, and criticality matrices
 - Lead time impact and financial exposure
 - Integration with asset BOMs
- **Module 3: Stock Level Optimization and Reorder Strategy (11:30 – 01:00)**
 - Calculating min-max, safety stock, and reorder points
 - Methods for fast/slow/critical item forecasting
 - Consumption trends and seasonality
- **Module 4: Workshop – Spare Classification Simulation (02:00 – 03:30)**
 - Apply models to classify and rank actual parts data

Day 2: MRO Coordination and System Integration

- **Module 5: MRO Planning and Spares Synchronization (07:30 – 09:30)**
 - Linking PM and CM tasks to spares demand
 - Shutdown planning and material kitting
 - Coordination with engineering and project planning
- **Module 6: Warehouse and Materials Handling (09:45 – 11:15)**
 - Receiving, shelving, and tagging practices
 - Storage conditions for critical and sensitive items
 - FIFO, LIFO, and aging stock decisions
- **Module 7: ERP and CMMS Data Accuracy (11:30 – 01:00)**
 - Maintaining part master records
 - Avoiding duplication and ghost stock
 - CMMS transactions: reservations, movements, and issues
- **Module 8: Exercise – Spares Master File Review (02:00 – 03:30)**
 - Group review of naming standards, data fields, and inventory control logic

Day 3: Reliability, Financials, and Audit Controls

- **Module 9: Reliability-Centered Spares Planning (07:30 – 09:30)**
 - RCM logic and FMEA integration
 - MTBF, MTTR, and parts usage patterns
 - Aligning critical spares with failure modes
- **Module 10: Financial Implications and Stock Audits (09:45 – 11:15)**
 - Valuation of stocked spares and depreciation
 - Obsolete, expired, and redundant stock
 - Physical verification and audit trail requirements
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Module 11: Risk Mitigation and Emergency Sourcing (11:30 - 01:00)

- Supplier strategies for critical lead-time items
- Framework contracts, consignment stock, and pooling
- Root cause analysis for repeat stockouts

Module 12: Final Workshop - Spare Parts Improvement Plan (02:00 - 03:30)

- Participants design a spare parts strategy plan
- Team presentations, instructor feedback, and wrap-up

Certification

Participants who complete the program will receive a Certificate of Completion in **Spares Management for Heavy Industries**, recognizing their capability to lead and support reliable, risk-based spare parts management in demanding industrial environments.

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