

## INTEGRATED INVENTORY MANAGEMENT & OPTIMIZATION

*"Aligning Inventory Strategy with Operational Excellence and Business Goals"*

### Schedule

Date	Venue	Fees (Face-to-Face)
23 - 27 Feb 2026	Kuala Lumpur, Malaysia	USD 3,495 per delegate
23 - 27 Aug 2026	Doha, Qatar	USD 3,495 per delegate
12 - 16 Oct 2026	Dubai, UAE	USD 3,495 per delegate
06 - 10 Dec 2026	Manama, Bahrain	USD 3,495 per delegate

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

### Introduction

Inventory is one of the largest investments on a company's balance sheet, and its management can directly impact profitability, customer satisfaction, and supply chain agility. Poor inventory practices lead to high carrying costs, stockouts, and operational delays. This course helps organizations design and execute an integrated inventory strategy that balances service levels, cost control, and supply chain efficiency.

This five-day program provides an in-depth look at modern inventory planning and control techniques, demand forecasting, safety stock optimization, inventory classification, and replenishment strategies. It combines best practices with real-world tools and analytics for inventory visibility, planning, and performance measurement.

### Objectives

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

- Apply modern inventory planning, control, and optimization techniques
- Analyze inventory drivers and performance metrics across the supply chain
- Forecast demand using quantitative and qualitative methods
- Design effective inventory replenishment and safety stock policies
- Implement ABC analysis and inventory classification frameworks
- Reduce inventory costs while maintaining service level targets

## Why Attend

- Gain practical tools to control and optimize inventory across the value chain
- Improve working capital and inventory turnover ratios
- Learn how to set safety stock levels and avoid stockouts or overstocking
- Use data-driven insights to improve forecasting accuracy
- Integrate inventory strategy with purchasing, warehousing, and demand planning

## Target Audience

This program is designed for:

- Inventory and materials management professionals
- Supply chain and logistics managers
- Warehouse and distribution supervisors
- Procurement and demand planning teams
- ERP analysts and supply chain consultants

## Individual Benefits

Key competencies that will be developed include:

- Analytical skills to manage and optimize inventory across multiple SKUs
- Forecasting and planning using real data and proven methods
- Understanding of replenishment systems and safety stock strategies
- Enhanced control over inventory visibility and reporting
- Ability to support strategic decisions through inventory performance metrics

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced inventory holding and stockout costs
- Improved alignment between inventory levels and actual demand
- Increased customer service through better product availability
- More accurate forecasting and replenishment planning
- Greater integration across purchasing, warehousing, and operations

## Instructional Methodology

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

- Strategy Briefings: Explore core inventory management concepts, frameworks, and KPIs
- Case Studies: Real-world inventory challenges and solutions from various industries
- Workshops: Hands-on forecasting, stock classification, and reorder policy simulations
- Peer Exchange: Group exercises on optimizing inventory mix and resolving stock imbalances
- Tools: Templates for ABC analysis, EOQ, demand forecasts, and inventory dashboards

## MAWA EVENTS

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

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

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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: Fundamentals of Inventory Management

- Module 1: Role of Inventory in the Supply Chain (07:30 – 09:30) • Inventory types and functions across procurement, operations, and sales • Challenges of overstocking vs. understocking • Inventory performance metrics (turnover, fill rate, carrying cost)
- Module 2: Inventory Systems and Classifications (09:45 – 11:15) • Push vs. pull inventory systems • Periodic vs. continuous review • ABC classification and inventory segmentation
- Module 3: Inventory Data and Visibility (11:30 – 01:00) • Item coding, units of measure, and master data • Inventory accuracy and reconciliation • Technology for inventory tracking and reporting
- Module 4: Workshop – ABC Analysis (02:00 – 03:30) • Hands-on activity: Perform ABC classification • Develop strategies for A, B, and C items

#### Day 2: Forecasting and Demand Planning

- Module 1: Introduction to Forecasting (07:30 – 09:30) • Types of demand (dependent vs. independent) • Forecasting objectives and horizons • Demand patterns and seasonality
- Module 2: Forecasting Techniques (09:45 – 11:15) • Qualitative vs. quantitative methods • Moving averages, exponential smoothing • Forecast accuracy and error analysis
- Module 3: Collaborative Forecasting (11:30 – 01:00) • S&OP and demand consensus processes • Engaging sales, marketing, and operations • Adjusting for promotions and new product launches
- Module 4: Forecasting Workshop (02:00 – 03:30) • Build a basic demand forecast using historical data • Evaluate forecast errors and bias

#### Day 3: Inventory Replenishment and Safety Stock

- Module 1: Replenishment Models (07:30 – 09:30) • EOQ model and reorder point calculation • Min-max systems and dynamic reorder intervals • Multi-echelon inventory management
- Module 2: Safety Stock Planning (09:45 – 11:15) • Service levels and stockout risks • Safety stock formulas based on demand and lead time variability • Safety stock vs. buffer stock vs. strategic stock
- Module 3: Inventory Optimization (11:30 – 01:00) • Inventory reduction strategies • Avoiding dead stock and slow-moving items • Cross-functional coordination in replenishment
- Module 4: Workshop – Replenishment Simulation (02:00 – 03:30) • Create a reorder policy for selected SKUs • Analyze inventory service levels

#### Day 4: Inventory Integration and Control

- Module 1: Inventory Control Techniques (07:30 – 09:30) • Cycle counting, audits, and inventory accuracy • Obsolescence management and inventory write-offs • Inventory turns and days of supply metrics
- Module 2: Integrated Inventory Planning (09:45 – 11:15) • Linking inventory plans to procurement and production • Inventory visibility across multiple locations • Centralized vs. decentralized inventory control
- Module 3: Technology and Systems (11:30 – 01:00) • Role of ERP, WMS, and analytics platforms • Inventory dashboards and alerts • Barcoding, RFID, and IoT in inventory control
- Module 4: Case Study – Inventory Rationalization (02:00 – 03:30) • Analyze a real inventory problem • Propose improvements and KPIs

#### Day 5: Strategic Inventory Management and Action Planning

- Module 1: Inventory and Business Strategy Alignment (07:30 – 09:30) • Aligning inventory levels with customer service and cost goals • Inventory's impact on financial performance • KPI dashboards for inventory management
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- Module 2: Risk Management in Inventory (09:45 – 11:15) • Inventory risk factors (supply delays, demand spikes) • Risk mitigation strategies and contingency stock • Managing inventory during supply chain disruptions
- Module 3: Final Workshop – End-to-End Inventory Strategy (11:30 – 01:00) • Develop an integrated inventory strategy for a sample company • Peer presentations and feedback
- Module 4: Action Planning and Course Closure (02:00 – 03:30) • Build a post-training implementation roadmap • Final Q&A and evaluation • Certificate distribution

## Certification

Participants will receive a Certificate of Completion in Integrated Inventory Management & Optimization, validating their ability to design, manage, and improve end-to-end inventory processes aligned with business goals and supply chain best practices.

## Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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TEL:

**+601116373203**

EMAIL:

**info@mawaevents.net**

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