

ADVANCED LOGISTICS & MATERIAL MANAGEMENT

“Optimizing Supply Chain Efficiency Through Strategic Logistics and Inventory Control”

Schedule

Date	Venue	Fees (Face-to-Face)
11 - 15 May 2025	Kuala Lumpur, Malaysia	USD 3495 per delegate

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

Introduction

In today’s competitive global market, efficient logistics and material management are vital to operational success. Organizations must manage complex supply chains, ensure timely deliveries, reduce excess inventory, and control costs while maintaining service excellence.

This advanced course provides participants with the tools, strategies, and analytical techniques needed to optimize logistics operations and material flow across the supply chain. It integrates principles of inventory optimization, transportation planning, warehouse efficiency, and digital logistics solutions to create end-to-end visibility and performance improvement.

Objectives

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

- Design and manage integrated logistics and material flow systems
- Apply advanced inventory control and demand forecasting techniques
- Streamline transportation, warehousing, and distribution operations
- Implement KPIs and dashboards for logistics performance monitoring
- Leverage digital tools for logistics automation and visibility

Why Attend

- Master practical strategies for reducing logistics and inventory costs
- Gain deep insights into warehouse layout, stock handling, and transport planning
- Understand how to use technology to track materials and optimize distribution
- Increase reliability, accuracy, and customer satisfaction through logistics control
- Enhance supply chain agility through improved material availability and flow

Target Audience

This program is designed for:

- Logistics, supply chain, and distribution professionals
- Inventory controllers and warehouse managers
- Purchasing, procurement, and material planning teams
- Operations and manufacturing managers
- Anyone responsible for logistics performance and material movement

Individual Benefits

Key competencies that will be developed include:

- Advanced planning of materials and logistics networks
- Use of inventory analysis methods (ABC, EOQ, safety stock)
- Efficient warehouse layout, storage, and retrieval systems
- Understanding of freight consolidation and route optimization
- Proficiency in logistics performance tracking and cost control

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved logistics performance, reduced stockouts and overstocking
- Lower transportation and warehousing costs through process improvement
- Enhanced customer service through better material availability
- Optimized space utilization and asset deployment in logistics facilities
- Stronger alignment of logistics with overall business strategy

Instructional Methodology

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

- Strategy Briefings - Logistics frameworks, SCOR, and warehouse KPIs
- Case Studies - Cost-saving logistics projects and supply disruptions
- Workshops - Stock level analysis, route planning, warehouse simulation
- Peer Exchange - Industry challenges and logistics solutions
- Tools - Inventory calculators, delivery matrix, logistics scorecards

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: Strategic Logistics & Supply Chain Integration

- Module 1: Logistics Role in the Extended Supply Chain (07:30 - 09:30) • Inbound, outbound, and reverse logistics overview
- Module 2: Aligning Logistics with Business Strategy (09:45 - 11:15) • Service level agreements (SLAs), cost-to-serve
- Module 3: Designing Logistics Networks (11:30 - 01:00) • Centralized vs. decentralized models, 3PL/4PL
- Module 4: Workshop - Map a Logistics Flow Diagram (02:00 - 03:30) • Visualize and analyze material movement in your operation

Day 2: Inventory & Materials Control

- Module 5: Inventory Classification & Optimization Techniques (07:30 - 09:30) • ABC analysis, EOQ, reorder points, safety stock
- Module 6: Demand Forecasting and Material Planning (09:45 - 11:15) • Time-series methods, demand variability, lead time
- Module 7: Inventory Accuracy & Cycle Counting (11:30 - 01:00) • Root causes of stock discrepancies and corrective actions
- Module 8: Workshop - Inventory Control Simulation (02:00 - 03:30) • Apply inventory formulas and forecast a product line

Day 3: Warehouse Management & Layout Optimization

- Module 9: Warehouse Functions and Process Flows (07:30 - 09:30) • Receiving, put-away, picking, packing, shipping
- Module 10: Layout, Space Utilization & Slotting (09:45 - 11:15) • Storage types, racking design, velocity analysis
- Module 11: Material Handling Systems (11:30 - 01:00) • Conveyors, forklifts, pallet systems, automation
- Module 12: Workshop - Design a Warehouse Layout (02:00 - 03:30) • Plan space, zones, and equipment layout for a case scenario

Day 4: Transport & Distribution Efficiency

- Module 13: Transportation Management & Freight Planning (07:30 - 09:30) • Carrier selection, Incoterms, load consolidation
- Module 14: Route Optimization and Delivery Scheduling (09:45 - 11:15) • Milkrun, dropshipping, last-mile logistics
- Module 15: Logistics Costing and Budget Control (11:30 - 01:00) • TCO, fuel cost modeling, delivery performance
- Module 16: Workshop - Transport Cost Analysis (02:00 - 03:30) • Compare transport modes and cost structures

Day 5: Digital Logistics & Performance Monitoring

- Module 17: Technology in Logistics (07:30 - 09:30) • WMS, TMS, RFID, IoT, barcode scanning
- Module 18: Logistics KPIs and Performance Dashboards (09:45 - 11:15) • Fill rate, on-time delivery, warehouse productivity
- Module 19: Risk Management and Resilience Planning (11:30 - 01:00) • Disruption recovery, contingency stock, risk matrix
- Module 20: Final Workshop - Build a Logistics Scorecard (02:00 - 03:30) • Design performance measures for your logistics operation

Certification

Participants will receive a Certificate of Completion in Advanced Logistics & Material Management, confirming their expertise in managing inventory, warehousing, transportation, and logistics operations with strategic insight and practical efficiency.

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