MAWA EVENTS

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

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AI IN SUPPLY CHAIN AND WAREHOUSE MANAGEMENT: OPTIMIZATION AND AUTOMATION

""Harnessing AI to Drive Efficiency and Innovation in Supply Chain and Warehouse Operations""

Schedule

Date	Venue	Fees (Face-to-Face)
13 – 17 Apr 2026	Dubai, UAE	USD 3495 per delegate

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

Introduction

Artificial Intelligence (AI) is revolutionizing industries across the globe, and supply chain and warehouse management are no exceptions. From predictive analytics to intelligent automation, AI technologies are significantly improving operational efficiency, reducing costs, and enhancing decision-making processes. This intensive 5-day course focuses on how AI can optimize and automate key aspects of supply chain management and warehouse operations.

Participants will explore AI techniques such as machine learning, data analytics, and automation tools to improve inventory management, demand forecasting, logistics planning, and warehouse processes. Through a combination of case studies, hands-on exercises, and expert-led sessions, this course provides practical insights into leveraging AI for supply chain and warehouse optimization.

Objectives

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

- Understand the role of AI in optimizing supply chain and warehouse management.
- Implement machine learning and predictive analytics for demand forecasting and inventory optimization.
- Leverage AI-powered automation tools for warehouse operations and logistics management.
- Integrate AI technologies into existing supply chain processes for increased efficiency.
- Analyze and optimize supply chain networks using AI-driven insights.

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Why Attend

- Gain a comprehensive understanding of AI's applications in supply chain and warehouse management.
- Learn how AI can streamline inventory management, reduce stockouts, and improve order accuracy.
- Understand how predictive analytics and demand forecasting can enhance decision-making processes.
- Discover AI-powered automation tools that improve warehouse operations, from picking and packing to logistics.
- Stay ahead of industry trends by implementing AI technologies to optimize your operations.

Target Audience

This program is designed for:

- Supply chain managers
- Warehouse managers
- Operations leaders
- Data scientists
- Logistics professionals
- Professionals interested in integrating AI technologies to optimize their supply chain and warehouse operations

Individual Benefits

Key competencies that will be developed include:

- Proficiency in AI-driven demand forecasting and inventory management techniques.
- Expertise in using AI tools to enhance warehouse operations and logistics planning.
- Knowledge of machine learning algorithms applied to supply chain optimization.
- Ability to implement automation strategies to streamline warehouse processes.
- Enhanced decision-making skills through AI-powered data analytics.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Capability to apply AI technologies to optimize supply chain operations and improve inventory management.
- Enhanced ability to implement automation in warehouse processes, reducing operational costs and improving efficiency.
- Knowledge of predictive analytics to enhance demand forecasting and logistics planning.
- Expertise in integrating AI tools for better decision-making and resource allocation within the supply chain.
- Improved ability to leverage data insights for operational optimization and long-term business growth.

Instructional Methodology

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

- Strategy Briefings – In-depth discussions on AI technologies and their impact on supply chain and warehouse management.
- Case Studies – Real-world examples of AI implementations in leading supply chain and warehouse operations.
- Workshops – Hands-on exercises to apply AI techniques to common supply chain and warehouse challenges.
- Peer Exchange – Group discussions on the opportunities and challenges of implementing AI in supply chain and warehouse operations.
- Tools – Introduction to AI-powered tools for demand forecasting, inventory optimization, and warehouse automation.

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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: Introduction to AI in Supply Chain and Warehouse Management

- Module 1: Understanding AI and Machine Learning in Supply Chain (07:30 – 09:30)
- Overview of AI technologies and their role in supply chain optimization
- Key concepts in machine learning, deep learning, and data analytics
- The impact of AI on supply chain efficiency and decision-making
- Module 2: AI in Inventory Management and Demand Forecasting (09:45 – 11:15)
- Applying machine learning for accurate demand forecasting
- Optimizing inventory management with AI-powered algorithms
- Case studies of successful AI applications in demand forecasting and inventory management

Day 2: AI-Driven Warehouse Operations and Automation

- Module 1: AI for Warehouse Automation (07:30 – 09:30)
- AI technologies in warehouse automation: robotics, drones, and automated picking systems
- Implementing AI-driven solutions for efficient warehouse operations
- Improving warehouse layout and process design using AI
- Module 2: Leveraging AI for Logistics and Distribution Optimization (09:45 – 11:15)
- AI applications in route optimization and transportation management
- Using AI to improve logistics planning and inventory flow
- Enhancing warehouse and distribution center coordination through AI

Day 3: Predictive Analytics for Supply Chain Optimization

- Module 1: Understanding Predictive Analytics in Supply Chain (07:30 – 09:30)
- The role of predictive analytics in supply chain management
- Machine learning techniques for predictive analytics in supply chain operations
- Real-time data analysis and decision-making using predictive insights
- Module 2: Data-Driven Optimization in Supply Chain Networks (09:45 – 11:15)
- Using AI to optimize supply chain networks for cost reduction and efficiency
- Enhancing supplier relationships and procurement strategies with AI insights
- Integrating AI-driven tools for end-to-end supply chain optimization

Day 4: Advanced AI Tools for Warehouse and Supply Chain Automation

- Module 1: Implementing Advanced AI Tools in Warehouse Operations (07:30 – 09:30)
- AI-powered systems for intelligent sorting, packing, and shipping
- Case studies of AI-driven warehouse automation tools in action
- Implementing and scaling AI tools in warehouse operations
- Module 2: AI for Real-Time Supply Chain Monitoring (09:45 – 11:15)
- Real-time supply chain visibility through AI-powered monitoring systems
- Tracking and optimizing supply chain performance using AI
- Ensuring continuous improvement with AI-driven insights and feedback loops

Day 5: Future Trends and Integration of AI in Supply Chain and Warehouse Management

- Module 1: The Future of AI in Supply Chain Management (07:30 – 09:30)
- Emerging trends in AI technologies for supply chain and warehouse operations
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The role of AI in creating sustainable supply chains

- The future of AI-driven logistics and warehousing
- Module 2: Integration and Implementation Challenges of AI in Supply Chains (09:45 – 11:15)
- Overcoming challenges in implementing AI technologies
- Strategies for integrating AI tools into existing supply chain systems
- Key considerations for scaling AI-driven supply chain solutions

Certification

Participants will receive a Certificate of Completion in AI in Supply Chain and Warehouse Management, validating their expertise in applying AI and intelligent automation to optimize logistics, inventory, and warehousing operations in a digitally transforming world.

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**

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