

IOT IN SUPPLY CHAIN

“Transform supply chain operations through real-time intelligence and connected logistics.”

Schedule

Venue	Fees
In-House	ASK FOR THE QUOTATION

► **Available delivery methods:** In-House Training

Introduction

This course explores how IoT technologies are revolutionizing the supply chain by enabling real-time visibility, predictive analytics, automation, and control from source to customer. Participants will learn how IoT devices, platforms, and networks improve asset tracking, inventory management, fleet operations, and cold chain compliance. Through industry-specific use cases and workshops, managers and professionals will be equipped to lead IoT-powered supply chain transformations.

Objectives

Participants will:

- Understand the IoT architecture and technologies used in supply chain applications
- Analyze IoT use cases in inventory tracking, fleet telematics, warehouse automation, and cargo security
- Evaluate integration with ERP/WMS/TMS platforms
- Examine security, data governance, and regulatory issues
- Develop a roadmap for IoT adoption in supply chain networks

Why Attend

In volatile and competitive global markets, visibility and responsiveness are critical. IoT enables data-driven decisions and automation across procurement, logistics, and distribution—empowering businesses to reduce costs, increase accuracy, and better serve customers.

Target Audience

- Supply Chain Managers & Directors
- Logistics and Distribution Professionals
- Warehouse & Operations Managers
- Procurement & Inventory Managers
- IT & Digital Transformation Leaders

Individual Benefits

- Enhance professional expertise in next-generation logistics
- Gain practical understanding of IoT-enabled operations
- Lead implementation of smart warehousing and tracking solutions

Organizational Benefits

- Improve supply chain transparency and resilience
- Optimize resource utilization and reduce shrinkage
- Strengthen customer service with real-time insights
- Enhance compliance and traceability in regulated industries

Instructional Methodology

- Industry case studies and project simulations
- Interactive group discussions and scenario-based planning
- Hands-on exercises with system mapping and tool evaluation
- Strategic planning for scalable digital transformation

Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

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: IoT Foundations in Supply Chain

Module 1: Introduction to IoT – Devices, Networks & Data (07:30 – 09:30)

Module 2: Evolution of Supply Chain – Digitization & Automation (09:45 – 11:15)

Module 3: Use Case Overview: Track & Trace, Smart Inventory, Fleet Telemetry (11:30 – 01:00)

Module 4: Workshop – Map IoT Applications Across Your Supply Chain (02:00 – 03:30)

Day 2: Technology Stack and Infrastructure

Module 1: IoT Sensors, RFID, Beacons, GPS, and Condition Monitoring (07:30 – 09:30)

Module 2: Edge Computing, Cloud Integration, and Real-Time Dashboards (09:45 – 11:15)

Module 3: Wireless Connectivity – Wi-Fi, 4G/5G, LoRa, Bluetooth, NB-IoT (11:30 – 01:00)

Module 4: Case Study – Building a Smart Warehouse Infrastructure (02:00 – 03:30)

Day 3: Operational Applications and Analytics

Module 1: Predictive Maintenance and Asset Lifecycle Management (07:30 – 09:30)

Module 2: Real-Time Vehicle Routing and Fleet Telematics (09:45 – 11:15)

Module 3: Cold Chain Monitoring and Compliance Reporting (11:30 – 01:00)

Module 4: Scenario Workshop – IoT in Logistics Optimization (02:00 – 03:30)

Day 4: Data Integration, Risk, and Security

Module 1: Integration with ERP, WMS, and TMS Platforms (07:30 – 09:30)

Module 2: IoT Data Security – Threats, Authentication, and Encryption (09:45 – 11:15)

Module 3: Regulatory and Ethical Considerations (GDPR, HSE, FDA, etc.) (11:30 – 01:00)

Module 4: Group Discussion – Building Trustworthy IoT Systems (02:00 – 03:30)

Day 5: IoT Project Planning and Transformation Strategy

Module 1: Business Case Development – ROI and TCO Models (07:30 – 09:30)

Module 2: Vendor Selection, Platform Evaluation, and Scalability Planning (09:45 – 11:15)

Module 3: Designing a Roadmap for IoT Adoption in the Supply Chain (11:30 – 01:00)

Module 4: Capstone Activity – Present a Strategic IoT Plan for Your Supply Chain (02:00 – 03:30)

Certification

Participants will receive a **Certificate of Completion: IoT in Supply Chain Management**, validating their capability to lead, evaluate, and implement connected supply chain strategies.

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