Automation in Supply Chain Management

Duration – 40 Hours

Program Description

This program provides supply chain professionals with the knowledge and skills to apply automation technologies across procurement, warehousing, inventory, transportation, and distribution. Learners will explore how **RPA (Robotic Process Automation)**, **IoT-enabled systems**, **AI/ML-based workflows**, and **autonomous logistics solutions** can streamline operations, reduce costs, and improve responsiveness. The program combines conceptual understanding with hands-on exposure to tools and real-world case studies, preparing participants to design and implement automation strategies that deliver measurable impact.

Learning Goals

- Understand the role of automation in modern supply chain management.
- Learn about RPA, IoT, AI/ML, and robotics applications in supply chains.
- Automate procurement, order processing, and inventory management workflows.
- Apply warehouse automation technologies (RFID, robotics, drones, AGVs).
- Optimize transportation and logistics using automated scheduling and tracking.
- Integrate automation with existing ERP/SCM systems.
- Explore sustainability, efficiency, and resilience benefits of automation.
- Gain practical skills through case studies and a capstone project.

Course Topics

- Introduction to Supply Chain Automation & Industry Trends
- Robotic Process Automation (RPA) in Procurement & Order Management
- Warehouse Automation (RFID, Robotics, Drones, Automated Picking/Sorting)
- IoT in Inventory Tracking & Visibility
- AI/ML for Demand Forecasting & Automated Decision-Making
- Autonomous Vehicles & Last-Mile Delivery
- Automation in Transportation & Fleet Management
- Integrating Automation with ERP/SCM Systems
- Cybersecurity & Governance in Automated Supply Chains
- Case Studies: Global Examples of Supply Chain Automation
- Capstone Project: Designing an Automation Roadmap for a Supply Chain

Modules can be customized to suit UPS specific supply chain problem statements