



Consulting and Training | Reach New Heights

Course Name

Using AI for effective Supply chain Management

Sector Name

Procurement & Supply Chain Operations

Document Type

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Using AI for effective Supply chain Management

Course Introduction

This training is designed by Boost to explore how artificial intelligence is transforming supply chain management. Participants will learn how to leverage AI-powered tools and frameworks to enhance visibility, forecast demand, optimize operations, and make intelligent decisions across the supply chain.

From predictive analytics to autonomous logistics, this course offers a practical roadmap for implementing AI at different stages of the supply chain. It bridges the gap between technology and strategy, helping supply chain professionals harness the power of data, algorithms, and automation to improve performance, reduce risk, and build smarter, more resilient networks.

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Using AI for effective Supply chain Management

Target Audience

- ✓ Supply Chain Managers and Directors
- ✓ Procurement Professionals and Buyers
- ✓ Operations and Logistics Teams
- ✓ Business Analysts and AI Specialists
- ✓ ERP and Digital Transformation Leaders

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Learning Objectives

- ✓ Understand the role and impact of AI in modern supply chains
- ✓ Apply machine learning for demand forecasting and inventory management
- ✓ Integrate AI tools into procurement, logistics, and supplier management
- ✓ Enhance decision-making with predictive and prescriptive analytics
- ✓ Evaluate AI solutions for implementation and scalability

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Course Outline

✓ Day 01

Foundations of AI in Supply Chain

Introduction to Artificial Intelligence and Machine Learning

- ✓ Key concepts: supervised, unsupervised, reinforcement learning
- ✓ Real-world applications of AI in logistics and procurement
- ✓ Data types and sources in supply chain contexts

AI Capabilities in Supply Chain Operations

- ✓ Cognitive automation vs. rule-based automation
- ✓ Natural Language Processing (NLP) in supplier communication
- ✓ AI vs. traditional ERP and optimization tools

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Course Outline

✓ Day 02

AI in Forecasting and Inventory Optimization

Demand Forecasting Using AI Models

- ✓ Time-series forecasting with machine learning
- ✓ Reducing stockouts and overstock through AI-driven insights
- ✓ Case studies: retail and manufacturing sectors

Inventory Control and Optimization

- ✓ Inventory classification using AI clustering techniques
- ✓ Dynamic reorder point setting
- ✓ Integrating AI with inventory management systems

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Course Outline

✓ Day 03

AI in Procurement and Supplier Management

AI-Powered Procurement Decision Making

- ✓ Smart sourcing and AI-driven RFQs
- ✓ Supplier risk scoring and contract matching using AI
- ✓ Real-time procurement dashboards

AI in Supplier Evaluation and Relationship Management

- ✓ Supplier sentiment analysis from performance data
- ✓ Predictive analytics for supplier risk
- ✓ Automating supplier segmentation and onboarding

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Course Outline

✓ Day 04

Autonomous Supply Chain and Logistics Optimization

AI in Logistics Planning and Route Optimization

- ✓ Autonomous vehicle planning and drone logistics
- ✓ Route optimization using reinforcement learning
- ✓ Freight and warehouse automation

Digital Twins and AI Simulation

- ✓ Building virtual replicas for supply chain modeling
- ✓ Scenario planning using AI
- ✓ Monitoring real-time KPIs via AI dashboards

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Course Outline

✓ Day 05

Implementation Strategies and Risk Management

AI Integration into Existing Supply Chain Systems

- ✓ Cloud-based AI platforms and APIs
- ✓ Aligning AI strategy with digital transformation roadmaps
- ✓ Cross-functional team collaboration

Ethical and Risk Considerations

- ✓ AI bias and transparency in supply chain decision-making
- ✓ Data privacy and compliance frameworks
- ✓ Ensuring explainability and accountability in AI systems

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 15, 2027	March 19, 2027	5 days	4950.00 \$	Spain , Barcelona
Aug. 9, 2027	Aug. 13, 2027	5 days	4250.00 \$	UAE , Dubai
May 9, 2027	May 13, 2027	5 days	4250.00 \$	KSA , Dammam
Dec. 21, 2026	Dec. 25, 2026	5 days	4250.00 \$	UAE , Dubai
Aug. 30, 2027	Sept. 3, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Oct. 18, 2027	Oct. 22, 2027	5 days	4950.00 \$	England , London
Oct. 26, 2026	Oct. 30, 2026	5 days	4950.00 \$	Netherlands , Amsterdam

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