BLACKBIRD FOR TRAINING

AI in Procurement & Supply Chain

4 – 8 January 2027
Barcelona (Spain)



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Introduction

The fields of procurement and supply chain management are undergoing a radical transformation driven by **Artificial Intelligence AI**. Organizations are increasingly leveraging AI to manage complexity, enhance efficiency, and strengthen competitiveness. From demand forecasting and risk management to process automation and transparency across global supply networks, AI is reshaping how supply chains operate.

This course is designed for executives, team leaders, and specialists across both public and private institutions who want to harness the power of AI in procurement and supply chain management. Participants will gain practical insights and tools to convert operational challenges into opportunities for growth and organizational excellence.

Course Objectives

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

- Understand the role of AI in optimizing procurement and supply chain processes.
- Apply predictive analytics for demand forecasting and inventory management.
- Use data-driven insights to support strategic decision-making.
- Enhance transparency and traceability across supply networks using AI.
- Design risk management strategies supported by predictive modeling.
- Leverage smart automation to reduce costs and improve productivity.
- Strengthen supplier relationship management with AI-powered platforms.
- Evaluate the organizational impact of AI-driven procurement and supply chain solutions.

Course Outlines

Day 1: Introduction to AI and Its Applications

- Definition of AI and its importance in modern business.
- Key applications of AI in procurement and supply chain management.
- Distinguishing between traditional automation and AI-driven intelligence.
- Case studies of successful AI adoption in operations.
- Challenges organizations face when integrating AI.
- Activity: Assessing organizational readiness for AI adoption.



Day 2: Data Management and Predictive Analytics

- The role of big data in procurement and supply chain decisions.
- Predictive analytics for demand forecasting and inventory optimization.
- Using algorithms to identify supplier and customer behavior patterns.
- Real-time dashboards for performance monitoring.
- Workshop: Building a simple predictive demand model.
- Best practices in data governance for supply chain applications.

Day 3: Smart Automation and Process Optimization

- Automating routine procurement processes with AI.
- Robotic Process Automation RPA for contracts and invoicing.
- AI in logistics: route optimization and distribution efficiency.
- Reducing waste and costs through intelligent inventory control.
- Case study: End-to-end supply chain automation.
- Exercise: Designing an automated procurement scenario.

Day 4: Risk Management and Supplier Relationships with AI

- AI tools for supplier evaluation and performance monitoring.
- Predictive risk modeling in supply chain operations.
- Detecting market shifts and their impact on supplier contracts.
- Building stronger, data-driven partnerships with suppliers.
- AI-powered strategies for disruption and crisis management.
- Simulation: Managing a supply chain crisis with AI tools.

Day 5: Evaluation and Digital Transformation Roadmap

- Measuring the impact of AI adoption on supply chain performance.
- Developing KPIs to track efficiency and productivity.
- Reviewing lessons learned from real-world AI applications.
- Building a Continuous Improvement Framework for Digital Supply Chains.
- Roundtable: Future of AI in procurement and supply chain.
- Capstone project: Designing a strategic AI roadmap for procurement and supply chain.



Why Attend this Course? Wins & Losses!

- Gain advanced expertise in AI applications for procurement and supply chain.
- Strengthen forecasting, decision-making, and process optimization.
- Improve efficiency while reducing operational costs.
- Enhance real-time visibility and transparency.
- Benefit from practical exercises and case-based learning.
- Build resilience in crisis and risk management.
- Foster a culture of innovation and digital readiness.
- Improve long-term competitiveness.

Conclusion

AI in Procurement & Supply Chain is more than a technological trend—it is a revolution in how organizations manage their operations. This course equips participants with both theoretical knowledge and practical strategies to leverage AI for efficiency, transparency, and resilience.

Through structured modules, real-world case studies, and hands-on exercises, professionals will learn how to transform AI from a technical concept into a strategic driver of organizational success.

