Training Course on Masterclass on Emerging Technologies in Procurement and Supply

Professional Development Training Course Outline

Category	Logistics and Supply Chain Management	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The modern landscape of procurement and supply is undergoing a rapid transformation driven by **emerging technologies**. This masterclass provides a comprehensive understanding of these cutting-edge innovations, including **Artificial Intelligence (AI)**, **Blockchain**, **Big Data Analytics**, **Internet of Things (IoT)**, **Robotic Process Automation (RPA)**, **Cloud Computing**, and **Cybersecurity**, and their strategic application within procurement and supply chain management. Participants will gain actionable insights into leveraging these technologies to enhance efficiency, reduce costs, improve transparency, mitigate risks, and foster innovation, ultimately leading to a more resilient and competitive organizational value chain.

Training Course on Masterclass on Emerging Technologies in Procurement and Supply is designed to equip procurement and supply chain professionals with the knowledge and skills to not only understand the potential of **digital transformation** but also to strategically implement and manage technology-driven solutions. By focusing on practical applications and real-world case studies, attendees will learn how to identify opportunities for technological integration, evaluate different technology options, and lead successful technology adoption initiatives within their organizations, fostering a culture of continuous improvement and **strategic procurement**.

Programme Curriculum

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10 days

Course Objectives

1. Understand the fundamentals and applications of **Artificial Intelligence in Procurement** for tasks like spend analysis and supplier risk assessment.
2. Evaluate the potential of **Blockchain Technology for Supply Chain Transparency** and secure transactions.
3. Leverage **Big Data Analytics in Procurement** to gain actionable insights into spending patterns and market trends.
4. Explore the role of the **Internet of Things (IoT) in Supply Chain Visibility** and real-time tracking of goods.
5. Implement **Robotic Process Automation (RPA) in Procurement** to automate repetitive tasks and improve efficiency.
6. Utilize **Cloud Computing for Procurement Software** and enhanced collaboration across global teams.
7. Develop strategies for **Cybersecurity in Procurement** to protect sensitive data and ensure supply chain resilience.
8. Apply **Predictive Analytics in Supply Chain** to forecast demand and optimize inventory management.
9. Master the use of **E-Procurement Platforms** for streamlined sourcing and supplier management.
10. Analyze the impact of **Machine Learning in Supplier Relationship Management** for enhanced engagement.
11. Understand the principles of **Sustainable Procurement Technology** for environmental and social responsibility.
12. Explore the applications of **Mobile Procurement Technologies** for on-the-go access and approvals.
13. Strategize the adoption of **Low-Code/No-Code Platforms in Procurement** for rapid application development.

Organizational Benefits

- **Increased Efficiency:** Automation of manual tasks through RPA and AI frees up procurement professionals for strategic activities.

- **Cost Reduction:** Enhanced spend analysis and optimized sourcing strategies driven by big data and AI lead to significant savings.
- **Improved Transparency:** Blockchain and IoT provide end-to-end visibility across the supply chain, reducing risks and improving accountability.
- **Enhanced Decision-Making:** Data-driven insights from advanced analytics enable more informed and strategic procurement decisions.
- **Stronger Supplier Relationships:** Technology facilitates better communication, collaboration, and performance management of suppliers.
- **Reduced Risks:** Early identification of potential disruptions and vulnerabilities through predictive analytics and risk management tools.
- **Faster Cycle Times:** Streamlined processes through e-procurement platforms and automated workflows accelerate procurement cycles.
- **Greater Agility and Adaptability:** Cloud-based solutions and low-code platforms allow for rapid adjustments to changing market conditions.
- **Enhanced Compliance:** Improved tracking and audit trails through blockchain and digital platforms ensure regulatory adherence.
- **Fostered Innovation:** Exposure to emerging technologies encourages the adoption of innovative solutions within the procurement function.

Target Audience

1. Chief Procurement Officers (CPOs)
2. Heads of Supply Chain Management
3. Procurement Directors and Managers
4. Strategic Sourcing Professionals
5. Supply Chain Analysts
6. Category Managers
7. Procurement Specialists
8. Technology Adoption Leaders in Procurement

Course Outline

Module 1: Introduction to Emerging Technologies in Procurement and Supply

- Overview of the evolving procurement and supply chain landscape.
- Identifying key emerging technologies and their potential impact.
- Understanding the drivers and benefits of technology adoption.
- Framing a strategic approach to technology integration.
- Assessing organizational readiness for technological transformation.

Module 2: Artificial Intelligence (AI) in Procurement

- Fundamentals of AI, Machine Learning, and Deep Learning.
- Applications of AI in spend analysis and classification.
- Leveraging AI for supplier risk assessment and management.
- AI-powered chatbots and virtual assistants in procurement.
- Future trends and ethical considerations of AI in procurement.

Module 3: Blockchain Technology for Supply Chain

- Understanding the principles and architecture of blockchain.
- Applications of blockchain for enhanced supply chain transparency.
- Secure and immutable record-keeping for transactions and provenance.

- Smart contracts and their role in automating procurement processes.
- Challenges and opportunities for blockchain adoption in supply chains.

Module 4: Big Data Analytics in Procurement and Supply Chain

- Introduction to big data concepts and analytical techniques.
- Data mining and visualization for spend analysis and insights.
- Identifying patterns and trends for better negotiation and sourcing.
- Using data analytics for performance monitoring and improvement.
- Building a data-driven procurement strategy.

Module 5: Internet of Things (IoT) for Supply Chain Visibility

- Fundamentals of IoT devices, sensors, and connectivity.
- Real-time tracking and monitoring of goods and assets.
- Improving inventory management and reducing losses.
- Predictive maintenance and optimization of logistics.
- Security considerations for IoT deployment in supply chains.

Module 6: Robotic Process Automation (RPA) in Procurement

- Understanding RPA concepts and its capabilities.
- Identifying and automating repetitive procurement tasks (e.g., invoice processing, PO creation).
- Benefits of RPA: increased efficiency, accuracy, and cost savings.
- Implementing and managing RPA solutions.
- The impact of RPA on the procurement workforce.

Module 7: Cloud Computing for Procurement Solutions

- Overview of different cloud deployment models (SaaS, PaaS, IaaS).
- Benefits of cloud-based procurement software: scalability, accessibility, collaboration.
- Exploring leading cloud-based e-procurement platforms.
- Data security and compliance in the cloud.
- Integrating cloud solutions with existing IT infrastructure.

Module 8: Cybersecurity in Procurement and Supply Chain

- Understanding the evolving cyber threat landscape in procurement.
- Protecting sensitive procurement data and systems.
- Assessing and mitigating cyber risks in the supply chain.
- Implementing cybersecurity best practices and protocols.
- Responding to and recovering from cyber incidents.

Module 9: Predictive Analytics in Supply Chain Management

- Introduction to forecasting techniques and predictive modeling.
- Demand forecasting for optimized inventory planning.
- Predicting potential supply chain disruptions and risks.
- Using predictive analytics for proactive decision-making.
- Tools and technologies for implementing predictive analytics.

Module 10: E-Procurement Platforms and Digital Sourcing

- Exploring the features and functionalities of modern e-procurement platforms.
- Conducting online sourcing events (e-auctions, e-RFx).
- Managing supplier relationships through digital platforms.
- Improving efficiency and transparency in the sourcing process.
- Evaluating and selecting the right e-procurement solution.

Module 11: Machine Learning in Supplier Relationship Management (SRM)

- Applying machine learning for supplier performance evaluation.
- Using ML to personalize supplier communication and engagement.
- Identifying opportunities for collaborative innovation with suppliers.
- Automating supplier risk monitoring and mitigation.
- Building stronger and more strategic supplier partnerships through ML.

Module 12: Sustainable Procurement Technologies

- Understanding the importance of sustainability in procurement.
- Exploring technological tools for tracking environmental and social impact.
- Leveraging technology for ethical sourcing and supply chain transparency.
- Measuring and reporting on sustainability metrics.
- Integrating sustainability considerations into procurement processes through technology.

Module 13: Mobile Procurement and On-the-Go Solutions

- The role of mobile apps and platforms in modern procurement.
- Enabling remote approvals and transaction management.
- Improving communication and collaboration for field-based teams.
- Leveraging mobile technology for real-time data access.
- Security considerations for mobile procurement solutions.

Module 14: Low-Code/No-Code Platforms for Procurement Innovation

- Introduction to low-code and no-code development principles.
- Empowering procurement professionals to build custom applications.
- Rapid prototyping and deployment of solutions for specific needs.
- Improving agility and reducing reliance on IT departments.
- Exploring use cases for low-code/no-code in procurement.

Module 15: Implementing and Managing Technology Adoption in Procurement

- Developing a change management strategy for technology implementation.
- Engaging stakeholders and addressing resistance to change.
- Training and supporting users on new technologies.
- Measuring the ROI and benefits of technology adoption.
- Establishing a framework for continuous improvement and technology updates.

Training Methodology

This masterclass will employ a blended learning approach, combining:

- **Interactive Lectures:** Engaging presentations providing foundational knowledge and insights into emerging technologies.
- **Case Study Analysis:** Real-world examples of successful technology implementation in procurement and supply chain.

- **Group Discussions:** Collaborative sessions to exchange ideas, challenges, and best practices.
- **Practical Exercises:** Hands-on activities to apply learned concepts and explore technology tools.
- **Expert Q&A Sessions:** Opportunities to interact with industry experts and address specific queries.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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