**PAN AFRICAN**
Learning and Growth Network

# EMERGING TECHNOLOGIES IN PROCUREMENT AND SUPPLY
Navigating Digital Disruptions

**KALIPANO HOTEL**
DOWA, MALAWI

**24-27 JUNE 2025**

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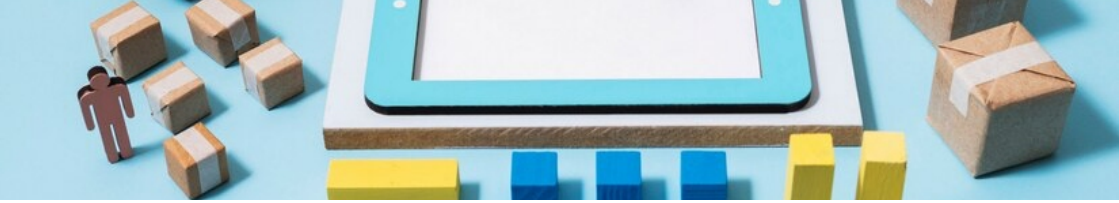www.palgnet.com

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# INTRODUCTION

As the global business landscape continues to experience rapid transformation driven by emerging technologies, senior-level executives, policy makers, and government officials must equip themselves with the knowledge and strategies to harness these innovations. This executive-level course is meticulously designed to empower leaders with the insights and tools required to navigate digital disruptions and drive success in procurement and supply chain management.

This comprehensive training program delves into the realm of emerging technologies, providing an in-depth exploration of how these advancements can revolutionize procurement and supply chain operations. Participants will gain a deep understanding of the role that technologies like AI, Blockchain, IoT, and data analytics play in optimizing processes, enhancing transparency, and ensuring long-term sustainability.

The executive-level course, "Emerging Technologies in Procurement and Supply," is designed to empower senior-level executives with the strategies and tools needed to leverage cutting-edge technologies for procurement and supply chain optimization. Participants will explore:

- The Digital Disruption Landscape: Understanding the transformative impact of emerging technologies on procurement and supply chain operations.
- Strategic Integration of AI and Machine Learning: Leveraging artificial intelligence and machine learning to automate decision-making and enhance forecasting accuracy.
- Blockchain for Transparent Supply Chains: Exploring blockchain's potential to establish end-to-end visibility, traceability, and accountability in supply chains.
- Smart Sensors and IoT in Supply Chain Management: Utilizing IoT devices and sensors to enable real-time tracking, predictive maintenance, and enhanced inventory management.
- Predictive Analytics for Risk Mitigation: Harnessing predictive analytics to identify and mitigate supply chain disruptions and uncertainties.
- Digital Twin Technology and Simulation: Applying digital twins for virtual modelling and optimization of supply chain processes.
- Next-Generation Supplier Collaboration: Enhancing collaboration and communication with suppliers through digital platforms and technologies.
- Data-Driven Decision-Making for Executive Leadership: Leveraging data analytics for strategic decision-making at the executive level.

## OBJECTIVES

Upon completing this Emerging Technologies in Procurement and Supply training, participants will be equipped to:

- Navigate the evolving landscape of emerging technologies and their implications for procurement and supply chain management.
- Strategically integrate AI, machine learning, and data analytics for informed decision-making.
- Assess the potential of Blockchain for enhancing transparency and accountability in supply chains.
- Utilize IoT devices and smart sensors to optimize inventory management and enhance supply chain visibility.
- Leverage predictive analytics to proactively address supply chain risks and disruptions.
- Apply digital twin technology for simulation and optimization of supply chain processes.
- Enhance supplier collaboration and communication through digital platforms and technologies.
- Effectively use data-driven insights to lead and drive strategic initiatives at the executive level.

## TRAINING METHODOLOGY

This executive course adopts an immersive and strategic approach, catering specifically to the needs of senior-level executives, policy makers, and government officials. Through a combination of thought-provoking presentations, high-level discussions, case studies, and interactive workshops, participants will gain practical insights and develop a strategic perspective on leveraging emerging technologies in procurement and supply chain management.

## ORGANIZATIONAL IMPACT

- Digital Leadership: Equipping senior executives with the knowledge and leadership skills to champion digital transformation initiatives.
- Operational Excellence: Implementing emerging technologies to streamline processes, reduce costs, and enhance efficiency.
- Strategic Innovation: Driving innovation and competitive advantage through the integration of cutting-edge technologies.
- Risk Mitigation: Enhancing risk management by utilizing predictive analytics and data-driven insights.
- Sustainability and Resilience: Leveraging technology to support sustainable practices and navigate disruptions effectively.

## PERSONAL IMPACT

- Strategic Vision: Developing a deep understanding of how emerging technologies can be strategically applied to drive organizational success.
- Leadership Competence: Nurturing leadership skills necessary to guide digital transformation initiatives and manage change.
- Effective Decision-Making: Gaining the ability to use data-driven insights for informed decision-making at the executive level.
- Collaborative Proficiency: Understanding how to foster collaboration among cross-functional teams and external partners through technology.
- Innovation Mindset: Adopting an innovation-focused mindset to identify and seize opportunities presented by emerging technologies.

## WHO SHOULD ATTEND?

- Senior-Level Executives in Procurement and Supply Chain Management
- Policy Makers and Government Officials involved in Economic Development
- Chief Procurement Officers (CPOs)
- Directors of Supply Chain and Logistics
- Executive Directors and Board Members
- Heads of Strategic Planning and Innovation
- Chief Technology Officers (CTOs)
- Leadership Teams Responsible for Procurement and Supply Chain

## CERTIFICATE

On completion of the training a PALGNET Certificate of Attendance will be awarded to delegates.

## COURSE OUTLINE

### Navigating Digital Disruption: Emerging Technologies Overview

- The transformative impact of emerging technologies on procurement and supply chain management.
- Technological trends shaping the future of the industry.
- Strategic leadership in the era of digital disruption.

### AI, Machine Learning, and Predictive Analytics in Procurement

- Integrating AI and machine learning for data-driven decision-making.
- Predictive analytics for demand forecasting,
- Risk assessment, and performance optimization with AI
- Case studies showcasing successful implementation of AI-driven strategies.

### Blockchain and Transparent Supply Chains

- Understanding Blockchain technology and its applications in supply chain management.
- Enhancing transparency, traceability, and accountability through Blockchain.
- Implementing Blockchain in procurement and supply chain operations.

### IoT and Smart Sensors for Real-Time Optimization

- Exploring the Internet of Things (IoT) and its role in supply chain optimization.
- Utilizing smart sensors for real-time tracking, monitoring, and predictive maintenance.
- Applying digital twin technology for virtual modelling and process optimization.
- Leveraging digital twins for scenario planning and risk assessment.

### Data-Driven Executive Leadership in Procurement and Supply Chain

- Utilizing data analytics for strategic decision-making at the executive level.
- Integrating technology-driven insights into leadership practices.
- Leading digital transformation initiatives and fostering a culture of innovation.
- Enhancing collaboration with suppliers through digital platforms and technologies.