



Institute for Capacity Development (ICD)

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Advanced Logistics and Supply Chain Management

Workshop Objectives

On completion of the workshop participants should be able to:

- Analyze end-to-end supply chain networks and design efficient logistics systems.
- Explain the role of logistics in managing the supply chain
- Determine the major forces affecting the future of logistics and supply chain management
- Develop an understanding of key drivers of supply chain performance
- Design an effective logistic plan for an ideal corporate or service Department
- Link effective planning and management to the strategic objectives of the company
- Develop the ability to design logistics systems and formulate integrated supply chain strategy
- Determine the major forces affecting the future of logistics and supply chain management

Target Groups

- Procurement or Purchasing managers,
- Materials Managers
- Supply Chain managers
- Plant managers
- Sales managers and
- Supply Chain consultants
- Purchasing agents

Workshop Outline

- Management Issues and Principles
- Foundations of Advanced SCM
- Evolution of supply chains: From traditional to digital
- Key drivers of competitive advantage (cost, speed, resilience)
- Global vs. regional supply chain models
- Supply Chain Strategy & Design
- Network optimization (facility location, transportation modes)
- Lean vs. agile supply chains
- Omni-channel logistics and e-commerce fulfillment
- Demand Planning & Forecasting
- Advanced forecasting techniques (machine learning, time-series analysis)
- Sales & Operations Planning (S&OP)

- Bullwhip effect mitigation
- Procurement & Supplier Relationship Management
- Strategic sourcing and supplier risk assessment
- Contract negotiation and total cost of ownership (TCO)
- Ethical sourcing and supplier diversity
- Logistics & Transportation Management
- Multimodal transportation (air, sea, rail, last-mile delivery)
- Warehouse optimization (automation, robotics, WMS)
- Reverse logistics and returns management
- Technology in SCM
- AI and machine learning for inventory optimization
- Blockchain for traceability and smart contracts
- Risk Management & Resilience
- Identifying vulnerabilities (natural disasters, cyber threats)
- Scenario planning and contingency strategies
- Post-pandemic supply chain adaptations
- Sustainable & Green Supply Chains
- Circular economy principles
- Carbon footprint reduction in logistics
- ESG (Environmental, Social, Governance) compliance
- Global SCM & Trade Compliance
- Incoterms 2020 and cross-border regulations
- Tariffs, trade agreements, and customs clearance
- Geopolitical risks and localization strategies
- Suppliers Relationships Management (SRM)
- Customers Relationships Management (CRM)
- Performance Measurement & KPIs
- SCOR (Supply Chain Operations Reference) model
- Key metrics: OTIF, inventory turnover, cash-to-cash cycle
- Balanced scorecard approach
- Action planning

Dates: 14th – 25th July 2025

Duration: 2 weeks

Costs: US\$3150/delegate

Venue: Kigali, Rwanda