

# SUPPLY CHAIN MANAGEMENT: VALUE CHAIN AND BLOCKCHAIN INTEGRATION

“Harnessing Technology and Transparency to Build Future-Ready Supply Chains”

## Schedule

Date	Venue	Fees (Face-to-Face)
22 - 26 Feb 2026	Cairo, Egypt	USD 3495 per delegate

## Introduction

Global supply chains are under pressure to become more agile, resilient, transparent, and digitally connected. By integrating value chain principles with technologies such as blockchain, organizations can achieve new levels of trust, efficiency, traceability, and strategic advantage.

This advanced 5-day course explores the evolving landscape of value chain optimization and blockchain-based supply chain visibility. Participants will gain tools to map end-to-end value creation, apply blockchain for tracking and verification, and lead innovation in procurement, logistics, sustainability, and supplier collaboration.

## Objectives

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

- Understand and map the full value chain across supply, operations, and distribution
- Identify inefficiencies and value leakage points in supply chain networks
- Explore blockchain architecture, applications, and use cases in logistics and procurement
- Design blockchain-enabled solutions for traceability, compliance, and risk reduction
- Align value chain transformation with ESG, customer demands, and digital strategy
- Apply tools to monitor performance, drive innovation, and improve supply visibility

## Why Attend

- Discover how blockchain enables trusted, tamper-proof supply chain records
- Learn how to assess and improve your value chain for speed, cost, and quality
- Improve traceability, transparency, and collaboration with suppliers and partners
- Prepare your organization for digital supply chain transformation
- Gain future-ready insights into logistics 4.0 and decentralized supply ecosystems

## Target Audience

### This program is designed for:

- Supply chain and logistics leaders
- Procurement and sourcing professionals
- Supply chain innovation or digital transformation managers
- Operations and sustainability teams
- Business analysts and technology strategists

## Individual Benefits

### Key competencies that will be developed include:

- Value chain optimization
- Blockchain fundamentals for SCM
- Traceability and digital ledger design
- Data-driven visibility and accountability
- Vendor and supplier integration using smart contracts

## Organizational Benefits

### Upon completing the training course, participants will demonstrate:

- Enhanced transparency and trust across the supply network
- Real-time visibility of goods, assets, and compliance status
- Reduced fraud, counterfeiting, and inventory loss
- Better alignment with ESG goals and traceability standards
- Increased agility and reduced lead time in procurement and fulfillment

## Instructional Methodology

### The course follows a blended learning approach combining theory with practice:

- Concept Briefings – Supply chain frameworks, value chain analysis, blockchain structure
- Hands-On Exercises – Mapping flows, evaluating smart contracts, use case planning
- Case Studies – Real-world examples from food, pharma, logistics, and tech sectors
- Workshops – Designing blockchain-based visibility solutions for sample value chains
- Peer Exchange – Collaborative discussion on pain points and innovation models
- Tools – Value mapping templates, blockchain simulation platforms, traceability scorecards

## MAWA EVENTS

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## Course Outline

### Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

#### Day 1: Strategic Supply Chain & Value Chain Thinking

• **Module 1: Supply Chain vs. Value Chain: Strategic Perspective (07:30 – 09:30)**

- Definitions and key distinctions
- Understanding value creation across functions
- Strategic goals: cost, time, quality, trust

• **Module 2: Value Chain Mapping & Performance Assessment (09:45 – 11:15)**

- Upstream to downstream flow mapping
- Identifying bottlenecks and inefficiencies
- Total landed cost, cycle time, and service metrics

• **Module 3: Aligning Value Chain to Customer and ESG Demands (11:30 – 01:00)**

- Stakeholder mapping and shared value
- Sustainable sourcing and traceability needs
- Linking value chain transformation to business strategy

• **Module 4: Workshop – Mapping a Value Chain from Source to Delivery (02:00 – 03:30)**

#### Day 2: Blockchain Fundamentals and SCM Use Cases

• **Module 5: Introduction to Blockchain Technology (07:30 – 09:30)**

- Distributed ledger systems: structure and functions
- Blockchain vs. traditional databases
- Permissioned vs. public blockchains

• **Module 6: Blockchain in Supply Chain Management (09:45 – 11:15)**

- Key use cases: traceability, certification, anti-counterfeiting
- Applications in food safety, pharma, electronics, and fashion
- Role of IoT, sensors, and blockchain integration

• **Module 7: Smart Contracts and Decentralized Transactions (11:30 – 01:00)**

- How smart contracts automate transactions
- Digital terms, triggers, and escrow functions
- Benefits and legal considerations

• **Module 8: Simulation – Recording Supply Chain Events on Blockchain (02:00 – 03:30)**

#### Day 3: Supply Chain Visibility, Risk, and Compliance

• **Module 9: Supply Chain Visibility and Data Trust (07:30 – 09:30)**

- Real-time tracking, alerts, and dashboarding
- Challenges in data trust, silos, and partner coordination
- Blockchain as a single source of truth

• **Module 10: Risk and Fraud Mitigation with Blockchain (09:45 – 11:15)**

- Detecting supply disruptions, non-conformance, and delays
- Preventing invoice fraud and tampering
- Building supplier performance history

• **Module 11: Traceability and Regulatory Compliance (11:30 – 01:00)**

- Meeting traceability regulations (FSMA, REACH, ESG audits)
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Documenting origin, handling, and certification

- Digital audit trail and third-party verifiability
- **Module 12: Case Study - Blockchain Deployment in a Multinational Supply Chain (02:00 - 03:30)**

#### Day 4: System Design and Implementation

- **Module 13: Designing a Blockchain-Enabled SCM Process (07:30 - 09:30)**
- Key components: participants, data objects, consensus
- Platform selection and scalability planning
- Governance and access control models
- **Module 14: Challenges and Barriers to Adoption (09:45 - 11:15)**
- Cost, culture, legacy systems, and scalability
- Interoperability between partners and systems
- Overcoming resistance and building internal buy-in
- **Module 15: Integration with ERP, IoT, and Cloud Systems (11:30 - 01:00)**
- How blockchain complements enterprise systems
- Using APIs, digital twins, and smart tagging
- Creating end-to-end digital thread
- **Module 16: Workshop - Drafting a Blockchain Integration Plan (02:00 - 03:30)**

#### Day 5: Innovation, Strategy, and Final Simulation

- **Module 17: The Future of Blockchain in Logistics and Procurement (07:30 - 09:30)**
- Web3, tokenization, and supply chain finance
- DeFi applications, decentralized marketplaces
- AI and blockchain for predictive SCM
- **Module 18: Developing a Blockchain Strategy Roadmap (09:45 - 11:15)**
- Roadmap components: maturity, scope, partnerships
- Aligning blockchain with digital supply chain goals
- Stakeholder roles and roll-out phases
- **Module 19: Final Group Simulation - Blockchain Value Chain Blueprint (11:30 - 01:00)**
- Teams design a blockchain-based solution for a sample industry
- Present traceability, automation, and value enhancement features
- **Module 20: Wrap-Up & Certification Briefing (02:00 - 03:30)**

### Certification

Participants who complete the course will receive a **Certificate of Completion in Supply Chain Management: Value Chain and Blockchain Integration**, recognizing their ability to analyze, design, and lead next-generation supply chains powered by transparency, traceability, and digital trust.

### Why Choose MAWA Events

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