Blockchain for Supply Chain in ERP Training Course

Professional Development Training Course Outline

Category	Enterprise Resource Planning (ERP)	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Blockchain technology is revolutionizing enterprise operations, moving beyond its roots in cryptocurrency to become a foundational layer for enhanced business processes. In an era demanding unprecedented transparency and data integrity, the integration of a decentralized, distributed ledger into Enterprise Resource Planning (ERP) systems is a critical next step for modern organizations. Traditional ERP systems, while effective for internal data management, often struggle with the trust, visibility, and security issues inherent in multi-party supply chains. This course addresses this gap by providing professionals with the essential knowledge and practical skills to leverage the power of immutable record-keeping and smart contracts to transform their supply chain management (SCM) processes. The curriculum focuses on how this synergy can solve persistent challenges like fraud, inefficient reconciliation, and lack of end-to-end traceability.

Blockchain for Supply Chain in ERP Training Course is designed to equip participants with a comprehensive understanding of how to implement and strategically utilize Blockchain for Supply Chain within their existing ERP architecture. Participants will learn the fundamentals of this disruptive technology, focusing on its core features immutability, transparency, and decentralization and their direct application to SCM functions like procurement, logistics, inventory management, and ethical sourcing. Through a blend of theoretical instruction, real-world case studies, and practical exercises, attendees will gain the expertise to drive digital transformation, ensuring their organizations maintain a competitive edge in a rapidly evolving global marketplace. Mastery of these concepts is vital for anyone aiming to enhance operational efficiency, foster stakeholder trust, and achieve superior regulatory compliance and risk management.

Programme Curriculum

Blockchain for Supply Chain in ERP Training Course

Introduction

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Course Duration

5 days

Course Objectives

- Comprehend the foundational Blockchain fundamentals and their inherent value proposition for ERP systems.
- Analyze the strategic impact of Decentralized Ledger Technology (DLT) on traditional Supply Chain Management (SCM) workflows.
- Master the application of Smart Contracts to automate procurement and logistics processes.
- Develop strategies for achieving End-to-End Traceability and Real-Time Visibility of goods and assets.
- Evaluate different blockchain platforms for enterprise deployment in supply chains.
- Implement best practices for ensuring Data Integrity and security using cryptography and consensus mechanisms.
- Design a framework for integrating blockchain with existing ERP modules
- Mitigate risks related to counterfeiting and fraud using immutable record-keeping.
- Assess the role of IoT integration with blockchain for automated data capture in SCM.
- Drive improvements in Ethical Sourcing and Supply Chain Sustainability through transparent record-keeping.
- Formulate a compelling business case for blockchain adoption in an organizational context.
- Manage the challenges of regulatory compliance and cross-border data sharing.
- Translate technical blockchain concepts into actionable Digital Transformation initiatives.

Target Audience

1. Supply Chain Managers and Directors
2. ERP System Administrators and Consultants
3. Procurement Specialists and Sourcing Managers

4. IT/Digital Transformation Strategists
5. Logistics and Warehouse Operations Managers
6. Compliance, Risk, and Audit Professionals
7. Product Managers overseeing SCM software/systems
8. Business Analysts focused on process optimization

Course Modules

Module 1: Blockchain Fundamentals and ERP Integration

- Distributed Ledger Technology
- Immutability, Hashing, and Cryptography
- Blockchain and Traditional ERP Database
- Key Integration Points
- Case Study: Integrating a permissioned blockchain with SAP for inter-company transactions.

Module 2: Smart Contracts and Supply Chain Automation

- Smart Contracts 101.
- Automating Payments and Reconciliation.
- Self-Executing Agreements.
- Developing Contract Logic.
- Case Study: Automated quality-based payments to suppliers triggered by IoT sensor data.

Module 3: End-to-End Traceability and Transparency

- Traceability Challenges in multi-tier supply chains and how blockchain resolves them.
- Digital Product Passport.
- Real-Time Visibility.
- Serialization and Asset Tracking.
- Case Study: Walmart’s Food Traceability Network for rapid contaminant identification and recall management.

Module 4: Counterfeit Prevention and Product Provenance

- The Global Counterfeit Problem.
- Authenticity Verification
- Anti-Fraud Mechanisms.
- Consumer Engagement: Providing verifiable provenance data to the end-user.
- Case Study: De Beers' Tracr platform for tracking high-value diamonds from mine to retail.

Module 5: Blockchain Platforms and Ecosystems for Enterprise

- Hyperledger Fabric.
- Ethereum and other leading platforms for supply chain.
- Governance Models.
- Selecting the Right Platform.
- Case Study: Maersk/IBM's TradeLens platform and its adoption by shipping carriers and port authorities.

Module 6: Regulatory Compliance and Ethical Sourcing

- Audit Trails and Compliance Reporting.

- Cross-Border Data Sharing
- Ethical and Sustainable Sourcing.
- Risk Management.
- Case Study: Tracking cocoa and coffee beans to verify fair trade and sustainable farming practices.

Module 7: Integrating IoT, AI, and Big Data with Blockchain

- IoT Sensors and Data Oracle.
- AI for Predictive Analytics.
- Data Interoperability.
- Tokenization of Assets.
- Case Study: Using sensor data and blockchain for cold chain management in pharmaceuticals and food.

Module 8: Implementation Roadmap and Business Strategy

- Building the Business Case
- Phased Implementation Strategy.
- Talent and Skills Gap.
- Security and Scalability Challenges.
- Case Study: Developing an internal blockchain adoption strategy for a major automotive manufacturer.

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

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	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

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