



BLOCKCHAIN IMPLEMENTATION IN LOGISTICS AND SUPPLY CHAIN TRAINING COURSE

30 Nov - 04 Dec 2026

GENEVA

5900 € (PER PERSON)

REF: #LOG4851_150185



COURSE INTRODUCTION / OVERVIEW:

The global logistics and supply chain industry is undergoing a monumental transformation, driven by the need for greater transparency, efficiency, and security. This course provides a comprehensive exploration of how blockchain technology, or Distributed Ledger Technology (DLT), is revolutionizing these critical business functions. As detailed by authors like Don Tapscott in his seminal work "Blockchain Revolution," this technology offers an immutable and decentralized framework to overcome long-standing challenges such as data silos, lack of traceability, and complex multi-party transactions. This program, offered by BIG BEN Training Center, is meticulously designed to move beyond theoretical concepts and provide a practical, A-to-Z guide on strategic blockchain implementation. Participants will delve into the core components of blockchain, from smart contracts to asset tokenization, and learn to build a robust business case for its adoption. We will analyze real-world use cases, explore integration with existing systems like IoT, and address the critical aspects of governance, security, and regulatory compliance, empowering professionals to lead the charge in building the next generation of resilient and transparent supply chains.

TARGET AUDIENCE / THIS TRAINING COURSE IS SUITABLE FOR:

- Logistics and Supply Chain Managers.
- Operations Directors and Managers.
- IT Professionals and System Architects.
- Procurement and Sourcing Specialists.
- Freight Forwarders and 3PL Providers.
- Compliance and Risk Management Officers.
- Business Analysts and Strategy Consultants.
- Warehouse and Distribution Center Managers.
- Product Managers involved in supply chain solutions.



TARGET SECTORS AND INDUSTRIES:

- Shipping, Freight, and Maritime Logistics.
- Retail and E-commerce.
- Pharmaceutical and Healthcare.
- Food and Beverage Manufacturing and Distribution.
- Automotive and Aerospace Industries.
- Third-Party Logistics (3PL) and Fourth-Party Logistics (4PL) Providers.
- Government and Public Sector entities, including Customs and Border Agencies.
- Energy and Raw Materials.

TARGET ORGANIZATIONS DEPARTMENTS:

- Supply Chain Management.
- Logistics and Transportation.
- Information Technology (IT).
- Operations Management.
- Procurement and Purchasing.
- Compliance and Legal.
- Strategic Planning and Business Development.
- Finance and Trade Finance.



COURSE OFFERINGS:

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

- Analyze the fundamental principles of blockchain technology and its relevance to supply chain challenges.
- Evaluate different types of blockchain platforms (public, private, consortium) for logistics applications.
- Design and conceptualize smart contracts to automate key logistics processes like payments and customs clearance.
- Develop a strategic roadmap for piloting and scaling a blockchain solution within an organization.
- Integrate blockchain with emerging technologies like IoT for enhanced real-time asset tracking and visibility.
- Assess and mitigate the security, privacy, and governance risks associated with DLT implementation.
- Construct a compelling business case for blockchain adoption, focusing on ROI and operational efficiency.
- Navigate the evolving regulatory landscape impacting blockchain in international trade and logistics.

COURSE METHODOLOGY:

The training methodology at BIG BEN Training Center is designed to be highly interactive, practical, and engaging, ensuring participants can translate theoretical knowledge into actionable strategies. We employ a blended learning approach that combines expert-led presentations with hands-on workshops and collaborative problem-solving sessions. A cornerstone of the course is the extensive use of real-world case studies, examining successful blockchain implementations by industry pioneers as well as analyzing the challenges they faced. Participants will work in teams on simulated projects, such as designing a smart contract for a freight agreement or developing an implementation plan for a traceability solution. These activities foster critical thinking and teamwork. Interactive discussions, Q&A sessions, and peer-to-peer feedback are encouraged throughout the five days to create a dynamic learning environment. Our expert instructors provide continuous guidance, ensuring that each participant leaves with not only a deep understanding of the technology but also the practical skills and confidence to lead blockchain initiatives within their own organizations.



COURSE AGENDA (COURSE UNITS):

UNIT ONE: FOUNDATIONS OF BLOCKCHAIN IN SUPPLY CHAIN MANAGEMENT

- Introduction to Distributed Ledger Technology (DLT).
- Key challenges in modern logistics and supply chains.
- How blockchain provides solutions for transparency, security, and efficiency.
- Understanding cryptographic principles like hashing and digital signatures.
- Exploring consensus mechanisms (Proof of Work, Proof of Stake).
- The anatomy of a block and the structure of a blockchain.
- Differentiating between public, private, and consortium blockchains.

UNIT TWO: SMART CONTRACTS AND ASSET TOKENIZATION IN LOGISTICS

- Deep dive into the functionality of smart contracts.
- Automating logistics processes with self-executing contracts.
- Use cases for smart contracts in freight, insurance, and payments.
- Introduction to asset tokenization for supply chain assets.
- Creating digital twins for physical goods on the blockchain.
- Managing inventory and ownership transfer through tokens.
- Legal and practical considerations for smart contract deployment.

UNIT THREE: DEVELOPING A STRATEGY FOR BLOCKCHAIN IMPLEMENTATION

- Building a business case and defining key performance indicators (KPIs).
- Identifying the most impactful use cases for your organization.
- Conducting a readiness assessment for blockchain adoption.
- Selecting the right blockchain platform and technology stack.
- Step-by-step guide to developing a pilot project.
- Change management strategies for stakeholder buy-in.
- Calculating the return on investment (ROI) for a blockchain project.



UNIT FOUR: INTEGRATION, INTEROPERABILITY, AND DATA MANAGEMENT

- Integrating blockchain with existing ERP and SCM systems.
- Leveraging the Internet of Things (IoT) for real-time data capture.
- Ensuring data integrity from physical to digital worlds.
- Strategies for blockchain interoperability and cross-chain communication.
- Managing data privacy and confidentiality on the blockchain.
- On-chain vs. off-chain data storage solutions.
- API development for seamless system integration.

UNIT FIVE: GOVERNANCE, SECURITY, AND THE FUTURE OF LOGISTICS

- Establishing a governance framework for a consortium blockchain.
- Managing roles, permissions, and access control.
- Common security vulnerabilities and risk mitigation strategies.
- Navigating the regulatory and compliance landscape (e.g., GDPR, trade laws).
- The role of blockchain in sustainable and ethical sourcing.
- Future trends: AI, machine learning, and blockchain convergence.
- Final project presentation: A blockchain implementation roadmap.

FAQ:

QUALIFICATIONS REQUIRED FOR REGISTERING TO THIS COURSE?

There are no requirements.

HOW LONG IS EACH DAILY SESSION, AND WHAT IS THE TOTAL NUMBER OF TRAINING HOURS FOR THE COURSE?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.



SOMETHING TO THINK ABOUT:

As blockchain adoption increases, how might the decentralization of logistics data impact the competitive landscape and the role of traditional intermediaries like freight forwarders?

WHAT UNIQUE QUALITIES DOES THIS COURSE OFFER COMPARED TO OTHER COURSES?

This course distinguishes itself by moving beyond a purely technical or theoretical overview of blockchain. Its core focus is on strategic implementation and practical application within the complex ecosystem of logistics and supply chain management. While other programs may focus heavily on coding or cryptocurrency, our curriculum is tailored for business leaders, operations managers, and IT strategists. We emphasize the "how" and "why" of blockchain adoption, dedicating significant time to building a robust business case, developing a phased implementation roadmap, and navigating the critical challenges of system integration and change management. The content is enriched with deep-dive analyses of real-world logistics use cases, exploring both successes and failures to provide balanced, actionable insights. Furthermore, the course places a strong emphasis on the convergence of blockchain with other transformative technologies like IoT, providing a holistic view of the future of supply chain visibility and automation. Participants will leave not just with knowledge, but with a strategic framework they can immediately apply to drive innovation and competitive advantage in their organizations.