



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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**CODE:**      **LENGTH:**      **PRICE:**

AIC\_BL-100      6 Hours      £150.00

## Description

**Lead confidently in the Blockchain executive sphere**

- **Leadership Certification:** Master blockchain strategies for executive leadership roles
- **Emerging Technologies:** Understand trends, synergies, and innovations in blockchain
- **Strategic Training:** Learn how to lead digital evolution using blockchain insights

## At a Glance: Course + Exam Overview

- **Included:** Self-paced course + Official exam + Digital badge
- **Delivery:** Projects & case studies
- **Outcome:** Industry-recognized credential + hands-on experience

## The following tools will be explored in this course:

- Ganache
- Slither
- Dune Analytics
- CoinGlass

## What's Included

- (One-Year Subscription + All Updates):
- High-Quality Videos, E-book (PDF & Audio), and Podcasts
- AI Mentor for Personalized Guidance
- Quizzes, Assessments, and Course Resources
- Online Proctored Exam with One Free Retake
- Comprehensive Exam Study Guide
- Access for Tablet & Phone

## Objectives

- Blockchain Fundamentals Proficiency
- Problem-Solving with Blockchain
- Regulations and Compliance
- Risk Management

## Audience

- **Business Leaders, Managers, and Executives:** Leaders seeking to leverage blockchain for business strategy and

efficiency.

- **Financial Professionals: Finance experts** needing to understand blockchain's impact on transactions and investment.
- **Entrepreneurs and Start-up Founders:** Innovators looking to integrate blockchain into new business models.
- **Investors and Traders:** Market professionals interested in blockchain's effects on trading and investment.
- **IT and Technology Professionals:** Tech experts aiming to explore blockchain's technical aspects and applications.

## Prerequisites

- Functional understanding of computing processes and open networks like internet.
- Basic knowledge to follow pseudocode to understand a concept.
- Ability to understand how various verticals work like finance, supply chains, asset trading etc.
- Fundamental understanding of how business utilizes information technology for process efficiencies and optimizations.

## Programme

### Module 1: Introduction to Blockchain Technology

- 1.1 History of Blockchain
- 1.2 Types of Blockchains: Public, Private, Consortium
- 1.3 Components of a Blockchain: Blocks, Transactions, Hashing
- 1.4 Distributed Ledger Technology (DLT)
- 1.5 Consensus Mechanisms: Proof of Work, Proof of Stake, Practical Byzantine Fault Tolerance (PBFT)
- 1.6 Cryptographic Techniques: Hash Functions, Digital Signatures, Merkle Trees

### Module 2: Blockchain Ecosystem Features

- 2.1 Immutability and Tamper Resistance
- 2.2 Transparency and Auditability
- 2.3 Decentralization and Peer-to-Peer Networking
- 2.4 Tokenization and Digital Assets
- 2.5 Interoperability and Cross-Chain Communication
- 2.6 Scalability and Performance Challenges

### Module 3: Real-World Use Cases and Projects

- 3.1 Finance: Cryptocurrency, Payment Solutions, Stablecoins
- 3.2 Supply Chain Management: Track and Trace, Counterfeit Prevention
- 3.3 Healthcare: Electronic Health Records (EHRs), Medical Supply Chain
- 3.4 Identity Management: Self-Sovereign Identity, KYC Solutions
- 3.5 Gaming and Entertainment: Non-Fungible Tokens (NFTs), Decentralized Applications (DApps)

### Module 4: Blockchain in Finance

- 4.1 Decentralized Finance (DeFi) Platforms
- 4.2 Automated Market Makers (AMMs) and Decentralized Exchanges (DEXs)
- 4.3 Lending Protocols and Yield Farming
- 4.4 Asset Tokenization: Real Estate, Stocks, and Commodities
- 4.5 Central Bank Digital Currencies (CBDCs)
- 4.6 Regulatory Challenges and Compliance Considerations

### Module 5: Blockchain in Supply Chain Management

- 5.1 Transparency and Traceability
- 5.2 Reduced Counterfeiting and Fraud
- 5.3 Efficient Inventory Management
- 5.4 Streamlined Documentation and Compliance
- 5.5 Improved Supply Chain Financing
- 5.6 Enhanced Supplier Relationships
- 5.7 Sustainability and Ethical Sourcing
- 5.8 Supply Chain Resilience and Risk Management
- 5.9 Collaborative Supply Chain Networks
- 5.10 Cost Reduction and Efficiency Gains

### Module 6: Blockchain in Healthcare

- 6.1 Data Security and Integrity
- 6.2 Interoperability and Data Sharing
- 6.3 Patient Empowerment and Control
- 6.4 Streamlined Administrative Processes
- 6.5 Clinical Trials and Research
- 6.6 Fraud Detection and Prevention
- 6.7 Regulatory Compliance
- 6.8 Telemedicine and Remote Patient Monitoring
- 6.9 Enhanced Patient Outcomes

### **Module 7: Blockchain in Government and Public Services**

- 7.1 Transparent and Trustworthy Governance
- 7.2 Secure and Efficient Identity Management
- 7.3 Improved Regulatory Compliance
- 7.4 Enhanced Voting Systems
- 7.5 Efficient Tax and Revenue Management
- 7.6 Digital Identity and Credentialing
- 7.7 Enhanced Supply Chain Management
- 7.8 Citizen Engagement and Participation

### **Module 8: Legal And Regulatory Considerations**

- 8.1 Regulatory Compliance
- 8.2 Smart Contracts and Legal Validity
- 8.3 Intellectual Property Rights
- 8.4 Data Privacy and Security
- 8.5 Cross-Border Transactions
- 8.6 Tokenization and Securities Regulations
- 8.7 Liability and Accountability
- 8.8 Regulatory Sandboxes and Innovation Hubs
- 8.9 Compliance Technology Solutions
- 8.10 Evolving Regulatory Landscape

### **Module 9: Privacy and Security in Blockchains**

- 9.1 Confidentiality Mechanisms
- 9.2 Permissioned vs. Permissionless Blockchains
- 9.3 Smart Contract Security
- 9.4 Immutable Nature of Data
- 9.5 Network Security

### **Module 10: Economic Impacts of Blockchains**

- 10.1 Cost Reduction and Efficiency Gains
- 10.2 Revenue Generation Opportunities
- 10.3 Market Disruption and Innovation
- 10.4 Global Trade and Commerce
- 10.5 Financial Inclusion
- 10.6 Capital Formation and Investment
- 10.7 Job Creation and Economic Growth
- 10.8 Risk Management and Resilience
- 10.9 Environmental Sustainability

### **Module 11: Future Trends in Blockchains**

- 11.1 Scalability Solutions
- 11.2 Decentralized Finance (DeFi)
- 11.3 Non-Fungible Tokens (NFTs)
- 11.4 Blockchain and Internet of Things (IoT)
- 11.5 Regulatory Developments
- 11.6 Environmental Sustainability

### **Module 12: Case Studies and Practical Applications**

- 12.1 Enterprise Use Cases
- 12.2 Project Use Cases

## Follow on courses

### Recommended Certifications:

- Blockchain+ Executive™ (BL-100) - Lead confidently in the Blockchain executive sphere
- Bitcoin+ Everyone™ (BC-900) - Demystify Bitcoin: Simple, Accessible, Essential for All
- Bitcoin+ Developer™ (BC-200) - Navigate the depth of development with Bitcoin
- Blockchain+ Developer™ (BL-200) - Build the Foundations of Tomorrow with Blockchain Developer
- Bitcoin+ Security™ (BC-300) - Defend Your Digital Wealth: Master Security Strategies

## Test and Certification

### Exam Details

- Duration
- 90 minutes
- Passing Score
- 70% (35/50)
- Format
- 50 multiple-choice/multiple-response questions
- Delivery Method
- Online via proctored exam platform (flexible scheduling)

### Exam Blueprint:

- Introduction to Blockchain Technology - 6%
- Blockchain Ecosystem Features - 9%
- Real-World Use Cases and Projects - 7%
- Blockchain in Finance - 9%
- Blockchain in Supply Chain Management - 9%
- Blockchain in Healthcare - 9%
- Blockchain in Government and Public Services - 9%
- Legal And Regulatory Considerations - 9%
- Privacy and Security in Blockchains - 9%
- Economic Impacts of Blockchains - 9%
- Future Trends in Blockchains - 9%
- Case Studies and Practical Applications - 6%

## Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
01 Jan 0001			English	Self Paced Training		£150.00

## Additional Information

This training is also available as onsite training. Please contact us to find out more.