Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

Arrow Enterprise Computing Solutions Ltd, Part 1st Floor, Suite 1D/1, Central House, Otley Road, Harrogate, HG3 1UG

Email: education.ecs.baltic@arrow.com
Phone: 0870 251 1000

Blockchain+ Executive™

CODE:	LENGTH:	PRICE:
AIC_BL-100	6 Hours	€100.00

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
12.3 Country/Government 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		€100.00

Additional Information

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