



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: educationteam.ecs.uk@arrow.com
Phone: 0870 251 1000



CODE: AIC_BC-100 **LENGTH:** 6 Hours **PRICE:** £150.00

Description

Empowering Executives with Bitcoin Innovation

- **Comprehensive Overview:** Learn blockchain mechanics, smart contracts, and DApps
- **Strategic Insight:** Gain understanding of emerging technologies and applications
- **Leadership Prep:** Perfect for executives needing a strategic blockchain foundation

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:

- Glassnode
- Blockchain Explorer
- CoinMarketCap
- Lnbits

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
- Understanding P2P Networks
- Exploring Ethereum and its ecosystem
- Privacy Enhancements
- Legal and Compliance Considerations

Audience

- **Blockchain Strategists:** Gain in-depth knowledge of Bitcoin's impact on business strategies and learn to drive blockchain

adoption in organizations.

- **Cryptocurrency Investors:** Understand the technical and financial aspects of Bitcoin to make informed investment decisions and manage portfolios effectively.
- **Enterprise Architects:** Master how to design and implement Bitcoin-based solutions at scale, ensuring seamless integration with existing systems.
- **Fintech Professionals:** Explore Bitcoin's role in revolutionizing financial services, from payment systems to secure digital currencies.
- **Technology Leaders:** Stay ahead of the curve by gaining advanced skills in Bitcoin and blockchain technology to lead innovation in the tech industry.

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

Course Introduction

1. Introduction to Blockchain and Cryptocurrency

- 1.1 Risks and Benefits
- 1.2 Databases – A Comparative Analysis
- 1.3 Delving into Bitcoin
- 1.4 Bitcoin Vs Blockchain

2. Understanding Bitcoin Blockchain Mechanics

- 2.1 Deep Dive into Components
- 2.2 Lifecycle of a Bitcoin Blockchain Transaction
- 2.3 Understanding P2P Networks
- 2.4 The Mystery of Consensus Protocols

3. Bitcoin Script Decentralized Apps

- 3.1 Bitcoin Scripting Basics
- 3.2 Script Types: P2PKH and P2SH
- 3.3 Script Operations
- 3.4 Multisig Transactions
- 3.5 Escrow Services
- 3.6 Time-Locked Contracts
- 3.7 Atomic Swaps
- 3.8 Payment Channels

4. Blockchain Frameworks

- 4.1 Ethereum and its Ecosystem
- 4.2 Introduction to Other Frameworks

5. Advanced Blockchain Concepts

- 5.1 Layer 2 Scaling Solutions
- 5.2 Privacy Enhancements
- 5.3 Smart Contracts on Bitcoin
- 5.4 Sidechains and Drivechains
- 5.5 Atomic Swaps
- 5.6 Schnorr Signatures and Taproot
- 5.7 Decentralized Autonomous Organizations (DAOs)
- 5.8 Tokenization and Asset Issuance
- 5.9 Cross-Chain Interoperability
- 5.10 Governance and Protocol Evolution

6. Cryptocurrencies: Trading, Regulations, and Compliance

- 6.1 The Financial Side of Cryptos
- 6.2 Dive into ICOs, DAOs, NFTs, and DeFi
- 6.3 Legal and Compliance

7. Bitcoin Real-world Applications

- 7.1 Lightning Network (Layer 2 Solution)

- 7.2 RSK (Rootstock)

- 7.3 Liquid Network (Sidechain Solution)

- 7.4 Atomic Swaps

- 7.5 Lnbits

- 7.6 Bottle Pay

- 7.7 Zap Wallet

- 7.8 Muun Wallet

- 7.9 Sphinx Chat

- 7.10 Tippin.me

- 7.11 SparkSwap

- 7.12 RGB (Colored Coins Protocol)

- 7.13 Bisq

8. Blockchain and Other Technologies

- 8.1 Bitcoin Blockchain Integrations with Emerging Tech

- 8.2 Internet of Things (IoT) Integration

- 8.3 Artificial Intelligence (AI) Integration

- 8.4 Edge Computing Integration

- 8.5 Quantum Computing Integration

- 8.6 Biometrics and Authentication Integration

- 8.7 Supply Chain and Logistics Integration

- 8.8 Decentralized Identity and Authentication Integration

Follow on courses

Recommended Certifications:

- Bitcoin+ Developer™ (BC-200) - Navigate the depth of development with Bitcoin
- Blockchain+ Developer™ (BL-200) - Build the Foundations of Tomorrow with Blockchain Developer
- Bitcoin+ Everyone™ (BC-900) - Demystify Bitcoin: Simple, Accessible, Essential for All
- Blockchain+ Executive™ (BL-100) - Lead confidently in the Blockchain executive sphere
- 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 and Cryptocurrency – 5%
- Understanding Bitcoin Blockchain Mechanics – 10%
- Bitcoin Script Decentralized Apps – 20%
- Blockchain Frameworks – 15%
- Advanced Blockchain Concepts – 15%
- Cryptocurrencies: Trading, Regulations, and Compliance – 10%
- Bitcoin Real-world Application – 15%
- Blockchain and Other Technologies – 10%

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.