



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Skontaktuj się z nami

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Kod: **Czas trwania:** **Cena netto:**

AIC_BC-300 10 Hours (1.25 days) zł2,228.00

Description

Defend Your Digital Wealth: Master Security Strategies

- **Cybersecurity Focus** Learn to secure Bitcoin networks and transactions
- **Best Practices:** Master the latest security protocols and risk mitigation
- **Specialized Training:** Ideal for those pursuing roles in cryptocurrency and blockchain security

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:

- Blockchain API
- Bitcoin Core
- BIP32.ORG
- Blockchair

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

Cel szkolenia

- Understanding Bitcoin Fundamentals
- Blockchain Security Principles
- Consensus Mechanisms and Security
- Bitcoin Scripting and Transaction Security
- Bitcoin Network Security
- Analyzing Exploits and Vulnerabilities

Uczestnicy

- **Cybersecurity Professionals:** Acquire specialized skills to protect Bitcoin networks and transactions from emerging cyber threats and attacks.
- **Digital Asset Managers:** Learn to secure Bitcoin holdings, manage wallet security, and implement strategies to protect investments from hacking and fraud.
- **Security Engineers:** Gain expertise in deploying Bitcoin security protocols within corporate infrastructures, ensuring robust

protection and data integrity.

- **Blockchain Developers:** Understand the security implications of Bitcoin technology, learning to design secure and scalable blockchain solutions.
- **IT and Technology Managers:** Equip yourself with advanced Bitcoin security knowledge to oversee and implement secure blockchain solutions.

Wymagania wstępne

- Basic understanding about Bitcoin, no technical knowledge required.
- An interest in learning about financial technologies, cryptocurrencies, and blockchain and their implementation in various aspects of business.
- A willingness to explore emerging technologies and use tools.

Program szkolenia

Course Introduction

Module 1 Introduction to Bitcoin and Cryptocurrencies

- 1.1 Overview of Bitcoin
- 1.2 Fundamentals of Cryptocurrencies
- 1.3 Key Cryptographic Concepts

Module 2 Bitcoin Blockchain Ledger Security

- 2.1 Integrity and Authentication in the Blockchain
- 2.2 Block Mining and Security Implications
- 2.3 Merkle Trees and Block Integrity

Module 3 Consensus Protocols and Security

- 3.1 Proof of Work (PoW) Mechanism
- 3.2 Security Benefits and Limitations of PoW
- 3.3 Alternative Consensus Mechanisms (Proof of Stake, Delegated Proof of Stake, etc.)
- 3.4 51% Attacks: Risks and Protections

Module 4 Bitcoin Scripting and Transaction Security

- 4.1 Introduction to Bitcoin Script
- 4.2 Script Types and Their Functions
- 4.3 Security Risks in Scripting
- 4.4 Advanced Scripting Techniques

Module 5 Bitcoin Network Protocol Security

- 5.1 Customized Treatment Solutions
- 5.2 Data Transmission Security (Encryption and Propagation)
- 5.3 Sybil Attacks and Defenses
- 5.4 The Role of Network Nodes in Security

Module 6 Bitcoin Wallet Security

- 6.1 Types of Wallets (Hot Wallets, Cold Storage)
- 6.2 Security Features of Wallets (Seed Phrases, Multi-factor Authentication)
- 6.3 Best Practices for Wallet Security
- 6.4 Hardware Wallets and Their Security Implications

Module 7 Known Exploits and Vulnerabilities

- 7.1 Double Spending
- 7.2 Race Attacks
- 7.3 Finney Attacks
- 7.4 Vector76 Attack
- 7.5 Analysis of Major Historical Exploits (e.g., The Mt. Gox Hack)

Module 8 Regulatory and Legal Security Considerations

- 8.1 Impact of Regulations on Bitcoin Security
- 8.2 KYC (Know Your Customer) and AML (Anti-Money Laundering) Compliance
- 8.3 Legal Challenges in Different Jurisdictions

Module 9 Emerging Threats and Future Security Trends

- 9.1 Quantum Computing Threats to Cryptography
- 9.2 Potential Future Network Vulnerabilities
- 9.3 Innovations in Blockchain Security (Layer 2 Solutions, Sharding)
- 9.4 Impact of Global Regulatory Changes on Security

Module 10 Best Practices and Security Strategies

- 10.1 Developing a Comprehensive Security Policy
- 10.2 Risk Assessment and Management in the Bitcoin Space
- 10.3 Security Auditing and Penetration Testing

Module 11 Research and Innovations in Bitcoin Security

- 11.1 Ongoing Research in Cryptographic Techniques
- 11.2 Upcoming Bitcoin Protocol Upgrades
- 11.3 Case Studies of Recent Security Enhancements
- 11.4 The Role of Open Source in Security Improvements

Rekomendacja kolejnych szkoleń

Recommended Certifications

Bitcoin+ Developer™ (BC-200) - Comprehensive program for developers covering Bitcoin scripting, Layer 2 scaling solutions, blockchain integration with SDKs/APIs, and security best practices.

Bitcoin+ Everyone™ (BC-900) - Accessible certification designed for beginners and professionals to understand

Bitcoin+ Executive™ (BC-100) - Empowering Executives with Bitcoin Innovation

Blockchain+ Developer™ (BL-200) - Build the Foundations of Tomorrow with Blockchain Developer

Test and Certification

Exam Format:

- 50 Multiple Choice Questions (MCQs)
- Duration: 90 minutes
- Online via proctored exam platform (flexible scheduling)
- 70% (35 out of 50 correct answers)

Exam Blueprint (percentage weight per module):

- Introduction to Bitcoin and Cryptocurrencies – 6%
- Bitcoin Blockchain Ledger Security – 7%
- Consensus Protocols and Security – 7%
- Bitcoin Scripting and Transaction Security – 10%
- Bitcoin Network Protocol Security – 10%
- Bitcoin Wallet Security – 10%
- Known Exploits and Vulnerabilities – 10%
- Regulatory and Legal Security Considerations – 10%
- Emerging Threats and Future Security Trends – 10%
- Best Practices and Security Strategies – 10%
- Research and Innovations in Bitcoin Security – 10%

Więcej informacji

Terminy

Data	Lokalizacja	Strefa czasowa	Język	Typ szkolenia	Gwarancja	Cena netto
01 Jan 0001			English	Self Paced Training		zł2,228.00

Dodatkowe informacje

Jeśli interesują Cię inne szkolenia tego producenta - skontaktuj się z nami.

