



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Skontaktuj się z nami

Email: szkolenia.ecs.pl@arrow.com
Phone: 12 616 43 00



Blockchain+ Developer™

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

AIC_BL-200 10 Hours (1.25 days) zł2,228.00

Description

Build the Foundations of Tomorrow with Blockchain Developer

- **Career-Focused:** Build expertise in blockchain and Bitcoin development
- **Hands-On Skills:** Tackle practical development work with future-oriented learning
- **Innovation-Driven:** Learn strategies for digital transformation and decentralized innovation

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:

- Etherscan
- Remix IDE
- Hyperledger Fabric
- Hardhat

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

- Tokenization and ICO Management
- Blockchain Analytics and Visualization Tools
- Blockchain Interoperability and Cross-Chain Solutions
- Distributed Ledger Technology (DLT)
- Blockchain Performance Optimization

Uczestnicy

- **Blockchain Developers:** Gain the technical expertise needed to build and implement blockchain-based applications and solutions for diverse industries.
- **Software Engineers:** Learn how to integrate blockchain technology into software development to enhance security, scalability, and efficiency.
- **Tech Innovators:** Dive deep into blockchain development to stay at the forefront of technological advancements.
- **Fintech Developers:** Explore blockchain's role in transforming financial services, from digital wallets to decentralized finance

(DeFi) applications.

- Enterprise IT Professionals: Understand how to leverage blockchain to improve operational efficiencies, data integrity, and transparency within large organizations.

Wymagania wstępne

- Familiarity with general programming concepts like data structures, algorithms and networks.
- Understanding of at least one legacy programming stack (e.g. Python, JavaScript, Java or similar).
- Fundamental knowledge to use command line consoles on any operating system.
- Ability to understand developer concepts like SDKs, APIs, application development tools etc.
- Experience with building end to end tiered applications.

Program szkolenia

Course Introduction

Module 1: Introduction to Blockchain and Smart Contracts

- 1.1 Origin of Blockchain
- 1.2 What is Blockchain?
- 1.3 Consensus Mechanisms
- 1.4 What are Smart Contracts?
- 1.5 Bitcoin Blockchains

Module 2: Ethereum Virtual (EVM) and Solidity Basics

- 2.1 What is an EVM and Ethereum?
- 2.2 Wallets Introduction and Creation
- 2.3 Introduction to Remix Editor with Metamask
- 2.4 Smart Contract Basic Structure
- 2.5 Variables, If/Else, Strings, Loops, Arrays, Test Tokens

Module 3: Advanced Solidity and Structures

- 3.1 Libraries, Interfaces, Modifiers
- 3.2 Structures, Enums, ABI, Calldata, Events, and Transfers
- 3.3 Contract-to-Contract Calls
- 3.4 Address and Address Payable
- 3.5 Receive and Fallback Functions
- 3.6 Upgradeable Contracts
- 3.7 Openzeppelin Libraries

Module 4: Tokenization and NFTs

- 4.1 ERC20 Token Creation
- 4.2 NFT, NFT Minting, IPFS, Security, and Pinata Cloud

Module 5: Development Tools and Techniques

- 5.1 Truffle, Ganache, and Hardhat
- 5.2 Metamask Wallet
- 5.3 Remix Development Environment
- 5.4 Localnet and Testnet Deployment

Module 6: DApp Integration and Testing

- 6.1 Web3.0 Integration with JS
- 6.2 Wallet Creation and Sending Transactions

Module 7: Introduction to Private Blockchains - Hyperledger Fabric

- 7.1 Public Vs Private vs. Consortium Blockchain Frameworks
- 7.2 Introduction to the Hyperledger Fabric
- 7.3 Hyperledger Projects

Module 8: Deep Dive into Hyperledger Fabric

- 8.1 Basic Concepts of HLF
- 8.2 Docker Introduction
- 8.3 Commands and Setup

Module 9: Golang Programming for Hyperledger Fabric

- 9.1 Installation and Path Setup
- 9.2 VS Code Plugin Setup, Variables, Strings, Conditional Statements, and Loops
- 9.3 Basics of the Language

Module 10: Chaincode Structure and Error Handling

- 10.1 Chain code Explanation using Fabric Samples and Test-network Explanation using Linux Scripting
- 10.2 Error Handling
- 10.3 Error Codes and Messages
- 10.4 Logging Errors
- 10.5 Handling Panics

Module 11: Custom Chaincode

- 11.1 Extending the Default Chaincode
- 11.2 Chaincode Deployment
- 11.3 REST API Integration with Front End

Module 12: Smart Contract Auditing and Tools, Hyperledger Fabconnect, and Firefly

- 12.1 Why Smart Contract Audits are Necessary
- 12.2 Introduction to Firefly, Fabconnect, and Blockchain Explorer

Rekomendacja kolejnych szkoleń

Recommended Certifications:

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

Test and Certification

Exam Details

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

Exam Blueprint:

- Introduction to Blockchain and Smart Contracts - 5%
- Ethereum Virtual (EVM) and Solidity Basics - 5%
- Advanced Solidity and Structures - 10%
- Tokenization and NFTs - 10%
- Development Tools and Techniques - 5%
- DApp Integration and Testing - 5%
- Introduction to Private Blockchains -Hyperledger Fabric - 10%
- Deep Dive into Hyperledger Fabric - 10%
- Golang Programming for Hyperledger Fabric - 10%
- Chaincode Structure and Error Handling - 5%
- Custom Chaincode - 10%
- Smart Contract Auditing and Tools Hyperledger Fabconnect, and Firefly - 5%

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.