



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Bitcoin+ Developer™

CODE:	LENGTH:	PRICE:
AIC_BC-200	30 Hours	€425.00

Description

Navigate the depth of development with Bitcoin

- **Foundational Learning:** Covers Bitcoin scripting, blockchain tech, and security practices
- **Advanced Builds:** Learn Layer 2 scaling, SDK/API integration, and real-world use cases
- **Hands-On Projects:** Complete practical work with a capstone project
- **Future-Ready:** Understand trends and secure coding in decentralized apps

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:

- Bitcoin Core
- Electrum
- BitcoinJS
- Umbrel

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

- Understanding Bitcoin and Blockchain Fundamentals
- Bitcoin Scripting Proficiency
- Layer 2 Scaling Solutions
- SDK/APIs and Deployment

Audience

- **Blockchain Developers:** Master the integration of Bitcoin protocols into decentralized applications and platforms.
- **Cryptocurrency Enthusiasts:** Learn how to develop, trade, and manage Bitcoin-based assets and understand blockchain technology.
- **Software Engineers:** Gain expertise in incorporating Bitcoin's blockchain into software applications for secure and efficient transactions.
- **Financial Analysts:** Explore the potential of Bitcoin in financial markets and use blockchain technology for secure financial

solutions.

- **Tech Innovators:** Dive into Bitcoin development to stay at the forefront of cryptocurrency and blockchain innovation.

Prerequisites

- 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.

Programme

Course Introduction

Module 1: Introduction to Bitcoin and Blockchain

- 1.1 Overview of Bitcoin Technology
- 1.2 Overview of Blockchain Technology

Module 2: Bitcoin Scripting Language

- 2.1 Fundamentals of Bitcoin Scripting Language
- 2.2 Components of Scripting Language Basics
- 2.3 Uses of Bitcoin Scripts
- 2.4 Execution Condition of Scripts
- 2.5 Security and Vulnerabilities in the Scripts

Module 3: Building on Bitcoin Script

- 3.1 Standard Transactions
- 3.2 Trade and DeFi
- 3.3 Smart Contracts
- 3.4 Asset Definition

Module 4: Layer 2 Scaling Solutions

- 4.1 Basics of Layer 2
- 4.2 Different Layer 2 Projects

Module 5: Use Cases and Projects using Layer 2

- 5.1 Payments Use Cases
- 5.2 Assets and DeFi
- 5.3 Industry Use Cases
- 5.4 Integration with Other Tech – IoT

Module 6: Security and Best Practices

- 6.1 For Scripting Apps
- 6.2 General Security Practices
- 6.3 Keys and Smart Contracts
- 6.4 Off the Chain
- 6.5 Layer 2

Module 7: Integration (SDK/APIs) and Deployment

- 7.1 Basic Overview of SDK & APIs
- 7.2 BitcoinJS
- 7.3 BitcoinJ
- 7.4 Bitcoinlib
- 7.5 Bitcoin RPC Client (Python)
- 7.6 Deployment Strategies

Module 8: Future Trends and Innovations

- 8.1 Innovation in Bitcoin Applications
- 8.2 Innovation in Bitcoin Layer 2
- 8.3 Innovation in Asset Definition
- 8.4 Innovation in Bitcoin Interoperability
- 8.5 Innovation in Bitcoin Identity and Users
- 8.6 Innovation in Bitcoin Dev Tools

Module 9: Capstone Project

1. Capstone Project

Follow on courses

Recommended Certifications:

- Bitcoin+ Executive™ (BC-100) - Empowering Executives with Bitcoin Innovation
- Blockchain+ Executive™ (BL-100) - Lead confidently in the Blockchain executive sphere
- Bitcoin+ Everyone™ (BC-900) -Demystify Bitcoin: Simple, Accessible, Essential for All

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 Bitcoin and Blockchain - 5%
- Bitcoin Scripting Language - 10%
- Building on Bitcoin Script - 20%
- Layer 2 Scaling Solutions - 10%
- Use Cases and Projects using Layer 2 - 15%
- Security and Best Practices - 5%
- Integration (SDK/APIs) and Deployment - 20%
- Future Trends and Innovations - 5%
- Project Work and Capstone - 10%

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
01 Jan 0001			English	Self Paced Training		€425.00

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)