

 AI CERTS™

Bitcoin Certification Program

Bitcoin+ Developer™



Executive Summary

Bitcoin+ Developer™ certification program offers comprehensive training, covering fundamentals of Bitcoin and the underlying Blockchain technology, fundamentals of bitcoin scripting, building applications using bitcoin scripts, Layer 2 scaling solutions, real-world use cases, security best practices, integration with SDK/APIs, and insights into future trends. The program culminates with a hands-on project work for practical application and a capstone project.

Certification 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

Exam Blueprint

Number
of Questions

50

Passing
Score

35/50 or 70%

Duration
of Time

90 Minutes

Format

**Online via AI
Proctoring platform**

Question Type

**Multiple Choice/Multiple
Response**

Exam Overview

Module	Weight
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%
	100%

AICERTs™

Bitcoin⁺
Developer™

Certification Modules

Module 1

Introduction to Bitcoin and Blockchain

1.1 Overview of Bitcoin Technology

1.2 Overview of Blockchain Technology

Module 2

Bitcoin Scripting Languages

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

Certification Outcome

Upon successful completion of Bitcoin+ Developer™, participants will attain a comprehensive understanding of Bitcoin and Blockchain technology. They will delve into Bitcoin scripting languages, explore building on Bitcoin Script, and learn about Layer 2 scaling solutions and their practical applications. Participants will gain insights into various use cases and projects utilizing Layer 2, along with security protocols and best practices. Integration methods using SDKs/APIs and deployment strategies will be thoroughly covered. Furthermore, participants will explore future trends and innovations in the field. Lastly, they will demonstrate their proficiency through project work and a capstone assignment, solidifying their expertise in Bitcoin and Blockchain.



Market Insight

As Bitcoin continues to redefine finance, mastering its ecosystem is crucial. Our course dives deep into blockchain mechanics, smart contracts, real-world applications, trading intricacies, and forecasts for the future. Elevate your executive insight and harness the potential of blockchain and cryptocurrencies for the next decade.



Value Proposition

Participants of this course gain comprehensive insights into blockchain, cryptocurrencies, and their transformative potential. Dive deep into mechanics, smart contracts, real-world applications, trading regulations, and future trends. Equip yourself with advanced knowledge to navigate the evolving landscape of blockchain and other intersecting technologies.



Additional Features

Interactive Sessions: Engage in discussions with industry experts and peers. **Hands-on Exercises:** Practical tasks to apply learned concepts in real-world scenarios. **Case Studies:** Dive deep into real business challenges and solutions. **Post-Certification Support:** Access to a community of Bitcoin experts and enthusiasts for continuous learning and networking.

BLOCKCHAIN Experts



Mohammad Shankayi

Blockchain Expert

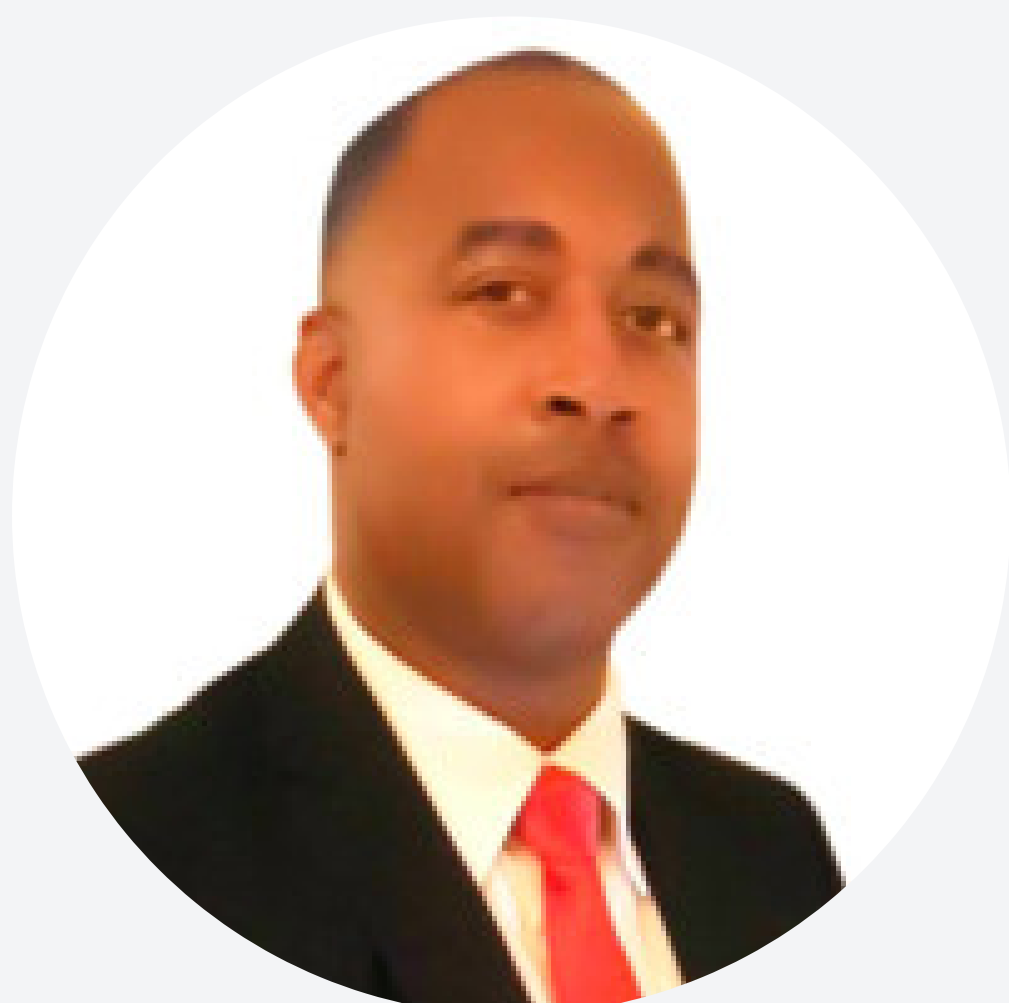
With over 12 years as a versatile CTO/Lead Developer, I excel in managing teams, crafting roadmaps, and implementing optimized solutions across various tech domains. Proficient in numerous languages and adept at navigating new technologies.



Amit Chandra

Blockchain Expert

As Manager of Technology Consulting, I lead the Blockchain Center of Excellence for the State Government of India. Spearheading end-to-end delivery of innovative blockchain solutions, I ensure successful, on-time, and within-budget implementations.



Henry Jenkins

Blockchain Expert

With over 25 years of diverse expertise, I am a seasoned Project Manager, Blockchain Developer, IT Engineer, US Army Veteran, and Cybersecurity Specialist adept at delivering 54+ customer-centric solutions.

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AI & BITCOIN CERTIFICATIONS!

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