

 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**

# Module Wise Weightage

Module	Weightage
<b>Module 1</b> Introduction to Bitcoin and Blockchain	5%
<b>Module 2</b> Bitcoin Scripting Language	10%
<b>Module 3</b> Building on Bitcoin Script	20%
<b>Module 4</b> Layer 2 Scaling Solutions	10%
<b>Module 5</b> Use Cases and Projects using Layer 2	15%
<b>Module 6</b> Security and Best Practices	5%
<b>Module 7</b> Integration (SDK/APIs) and Deployment	20%
<b>Module 8</b> Future Trends and Innovations	5%
<b>Module 9</b> Project Work and Capstone	10%
	<b>100%</b>

AICERTs™

Bitcoin<sup>+</sup>  
Developer™

# Certification Modules

## Module 1

### **Introduction to Bitcoin and Blockchain**

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1.1 Overview of Bitcoin Technology

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1.2 Overview of Blockchain Technology

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## Module 2

# Bitcoin Scripting Languages

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## 2.1 What is Bitcoin Scripting Language?

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## 2.2 Scripting Language Basics

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## 2.3 Uses of Bitcoin Scripts

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## 2.4 Execution Condition of Scripts

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## 2.5 Security and Vulnerabilities in the Scripts

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## Module 3

# Building on Bitcoin Script

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## 3.1 Standard Transactions

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## 3.2 Trade and Defi

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## 3.3 Smart Contracts

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## 3.4 Asset Definition

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## Module 4

# Layer 2 Scaling Solutions

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## 4.1 Layer 2 Definition

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## 4.2 Different Layer 2 Projects

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## Module 5

# Use Cases and Projects using Layer 2

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## 5.1 Payments Use Cases

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## 5.2 Assets and Defi

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## 5.3 Industry Use Cases

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## 5.4 Integration with Other Tech- IoT

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## Module 6

# Security and Best Practices

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## 6.1 For Scripting Apps

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**6.2 General Security Practices**

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**6.3 Keys and Smart Contracts**

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**6.4 Off the Chain**

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**6.5 Layer 2**

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**Module 7**

## **Integration (SDK/APIs) and Deployment**

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**7.1 Basic Overview of SDK & APIs**

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**7.2 BitcoinJS**

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**7.3 BitcoinJ**

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**7.4 Bitcoinlib**

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**7.5 Bitcoin RPC Client (Python)**

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**7.6 Deployment Strategies**

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## Module 8

# Future Trends and Innovations

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8.1 Innovation in Bitcoin Applications

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8.2 Innovation in Bitcoin Layer 2

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8.3 Innovation in Asset Definition

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8.4 Innovation in Bitcoin Interoperability

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8.5 Innovation in Bitcoin Identity and Users

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8.6 Innovation in Bitcoin Dev Tools

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## Module 9

# Capstone Project

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# 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

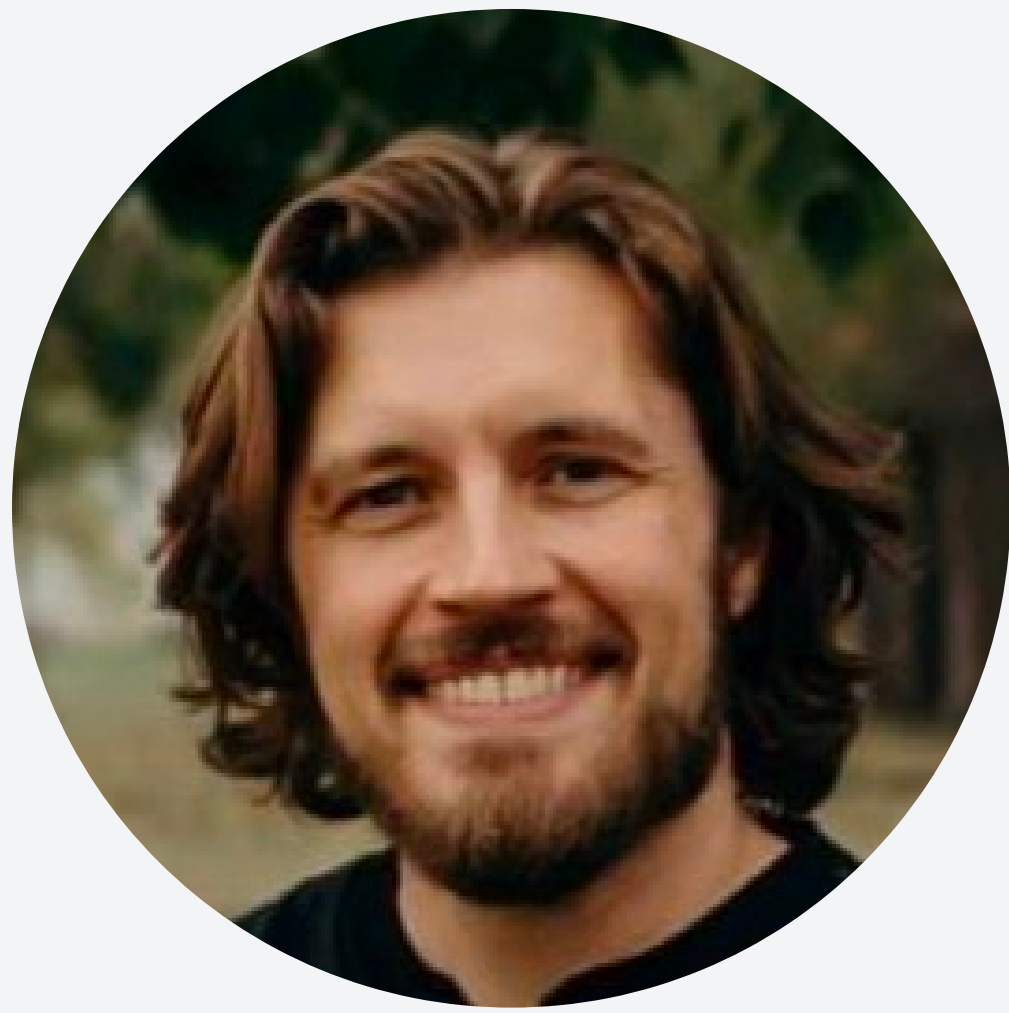
Participants of this course gain comprehensive insights into blockchain, cryptocurrencies, and their transformative potential. Dive deep into mechanics, smart contracts, real-world applications, trading regulations, and future trends. Equip yourself with advanced knowledge to navigate the evolving landscape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

# BITCOIN Experts



## Jason Kellington

Bitcoin Expert

As a consultant, trainer, and technical writer with more than 25 years of experience in IT, I specialize in the development and delivery of solutions focused on effective and efficient enterprise IT.



## Justin Frébault

Bitcoin Expert

I'm a boutique data consultant specializing in data mesh and lakehouse solutions. I've dedicated my career to helping organizations transform their approach to data, moving beyond mere knowledge.



## J Tom Kinser

Bitcoin Expert

I have over forty years of experience in software development, data engineering, management, and technical training. I am a Microsoft Certified Trainer and a software developer, holding multiple certifications.



## Terumi Laskowsky

Bitcoin Expert

Country Manager for Global Consulting Services in Japan, Specialties: Information Security (Compliance, Policy, Application, Host, Network)

# AI CERTS™

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