Bitcoin+ Developer

Category: AI, Data & Analytics | **Vendor:** AI Certs

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Bitcoin+ Developer
Related Exam:	Bitcoin+ Developer

Course Overview

The Bitcoin+ Developer training is an elite program meticulously crafted for those aiming to master the intricate world of Bitcoin and its interplay within the broader blockchain landscape. Participants are taken on a comprehensive journey that delves into Ethereum's smart contract realm, the operational dynamics of the Ethereum Virtual Machine, the fabric of private blockchains like Hyperledger, and much more. From the foundational principles of blockchain to the advanced deployment techniques for decentralized applications, this certification ensures developers are primed to innovate, integrate, and lead in the blockchain space.

About This Course

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Who Should Attend

Software Developer

Prerequisites & Entry Requirements

General 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

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Course Objectives

- Understand the basic principles of blockchain technology and the mechanics of smart contracts.
- Gain hands-on experience with Ethereum Virtual Machine (EVM) and Solidity, including advanced features and data structures.
- Learn how to create and manage digital tokens and NFTs within the blockchain space.
- Acquire the knowledge to build private blockchain solutions using Hyperledger Fabric and become proficient in Golang for chain code development.
- Develop the ability to test, integrate, and audit DApps, ensuring security and effectiveness within blockchain networks.

Detailed Course Outline

- Introduction to Blockchain and Smart Contracts

  Origin of Blockchain Why Blockchain Consensus Mechanism What are Smart Contracts? Bitcoins

- Ethereum Virtual Machine (EVM) and Solidity Basics

  What is an EVM? Wallet Introduction and Creation Introduction to Remix Editor with Metamask

  Smart Contract Basic Structure Variables, If/Else, Strings, Loops, Arrays, Test Tokens

- Advanced Solidity and Structures

  Testnet Deployment Libraries, Interfaces, Modifiers Structures, Enums, ABI, Calldata, Events

- Tokenization and NFTs

  ERC20 Token Creation NFT Minting, IPFS, Security, Pinata Cloud

- Development Tools and Techniques - Development Tools and Techniques

  Truffle, Ganache, Hardhat Docker, Localnet, and Testnet Deployment

- Testing and DAPP Integration

  Web3.0 Integration with JS Wallet Creation, Sending Transactions

- Introduction to Private Blockchain - Hyperledger Fabric

Public Vs. Private Vs Consortium Blockchain Frameworks Introduction to Hyperledger Fabric Hyperledger Projects

- Deep Dive into Hyperledger Fabric

Nodes in Hyperledger Fabric MSP and CA Client Application Interaction Installation on Virtual Box / AWS/ Azure VM

- Golang Programming for Hyperledger Fabric

Installation, Path Setup VS Code Plugin Setup, Variables, Conditional Statements, Loops Functions, Structures

- Error Handling and Chain Code Structure

Error Handling Chaincode Explanation using Fabric Samples, Test-network Explanation using Linux Scripting

- Chaincode Development

Extending the Default Chaincode Chaincode Deployment REST API Integration with Front End

- Chain Code Auditing and Tools Introduction

Introduction to Docker Introduction to Firefly, Fabconnect, Blockchain Explorer

- Bitcoin Development

Introduction to Bitcoin Development Bitcoin Scripting Language Bitcoin APIs and Libraries Building Bitcoin Transactions Bitcoin Security Best Practices Bitcoin Development Tools

, Introduction to Blockchain and Smart Contracts, Ethereum Virtual Machine (EVM) and Solidity Basics, Advanced Solidity and Structures, Tokenization and NFTs, Development Tools and Techniques, Testing and DAPP Integration, Introduction to Private Blockchain - Hyperledger Fabric, Deep Dive into Hyperledger Fabric, Golang Programming for Hyperledger Fabric, Error Handling and Chain Code Structure, Chaincode Development, Chain Code Auditing and Tools Introduction, Bitcoin Development, Introduction to Bitcoin and Blockchain, Bitcoin Scripting Languages, Building on Bitcoin Script, Layer 2 Scaling Solutions, Use Cases and Projects using Layer 2, Security and Best Practices, Integration (SDK/APIs) and Deployment, Future Trends and Innovations, Capstone Project

Certification Path

Bitcoin+ Developer

Exam: Bitcoin+ Developer

Additional Course Details

Nexus Humans Bitcoin+ Developer training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Bitcoin+ Developer course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Bitcoin+ Developer?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The Bitcoin+ Developer course helps prepare you for the Bitcoin+ Developer certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the Bitcoin+ Developer official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 5-day Bitcoin+ Developer course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Bitcoin+ Developer training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Bitcoin+ Developer?

Yes, we provide corporate training, dedicated training, and closed classes for Bitcoin+ Developer. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Bitcoin+ Developer, AI Certs, vILT

Q: Why choose Nexus Human for Bitcoin+ Developer?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Bitcoin+ Developer training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

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