Blockchain+ 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:	Blockchain+ Developer
Related Exam:	Blockchain+ Developer

Course Overview

The Blockchain+ Developer certification offers a comprehensive journey into blockchain technology and smart contracts. Beginning with the origin and structure of blockchain, participants explore consensus mechanisms and the concept of smart contracts, delving into Ethereum Virtual Machine (EVM) and Solidity basics. Advanced topics cover Solidity structures, tokenization, and non fungible tokens (NFTs). Development tools like Truffle and Ganache are introduced, along with testing techniques and DApp integration. Participants then explore private blockchain with Hyperledger Fabric, learning its architecture, Docker setup, and Golang programming. The course culminates in chaincode development, REST API integration, and chain code auditing.

About This Course

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Who Should Attend

Software Developer

Learning Outcomes

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

Course Objectives

- Understand Blockchain Fundamentals
- Master Solidity for Smart Contracts
- Explore Tokenization and NFTs
- Utilize Development Tools Effectively
- Integrate and Test DApps
- Dive into Private Blockchains with Hyperledger Fabric
- Program in Golang for Hyperledger Fabric
- Ensure Smart Contract Security

Detailed Course Outline

- Introduction to Blockchains

  Blockchain Origins What is Blockchain Consensus Mechanisms What are Smart Contracts? Bitcoin Blockchain

- Ethereum Virtual Basics (EVM) and Solidity Basics

  What is an EVM and Ethereum? Wallets 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

  Libraries, Interfaces, Modifiers Structures, Enums, ABI, Calldata, Events, Transfers Contract to Contract calls Address and Address payable Receive and Fallback functions Upgradeable Contracts Openzepplin Libraries

- Tokenization and NFTs

  Introduction NFT, NFT Minting, IPFS, Security, Pinata Cloud IPFS Integration

- Development Tools and Techniques

Truffle, Ganache, Hardhat Tools Localnet, and Testnet Deployment

- DApp Integration and Testing

Web3.0 Integration with JS Wallet Creation, Sending Transactions

- Introduction to Private Blockchains - Hyperledger Fabric

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

- Deep Dive into Hyperledger Fabric

Basic Concepts of HLF Docker Introduction Commands and Setup SDK Installation Docker Configuration

- Golang Programming for Hyperledger Fabric

Introduction VS Code Plugin Setup, Hello World Basics of the Language Functions, Structures

- Chaincode Structure and Error Handling

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

- Custom Chaincode

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

- Smart Contract Auditing and Tools Hyperledger Fabconnect, Firefly

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

□□ Certification Path

Blockchain+ Developer

Exam: Blockchain+ Developer

Additional Course Details

Nexus Humans Blockchain+ 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 Blockchain+ 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 Blockchain+ 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 Blockchain+ Developer course helps prepare you for the Blockchain+ Developer certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the Blockchain+ 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 Blockchain+ 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 Blockchain+ 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 Blockchain+ Developer?

Yes, we provide corporate training, dedicated training, and closed classes for Blockchain+ 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: Blockchain+ Developer, AI Certs, vILT

Q: Why choose Nexus Human for Blockchain+ 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 Blockchain+ 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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