Ethereum Training - Blockchain Development Bootcamp

Category: Software Development & Programming | **Vendor:** Blockchain Training Alliance

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This 3 day instructor-led course is designed for programmers and developers who want to take a comprehensive deep dive in writing smart contracts and building applications that interact with them. This course provides detailed overviews of Ethereum, smart contracts, and the development language, Solidity. The student will be exposed to Ethereum's adaptable feature set which allows the developer to design decentralized applications for countless applications. Students will also participate in hands-on programming lab sessions to learn, develop, and advance their skills in Ethereum development.The Ethereum Development Training Course is designed for those seeking an in-depth understanding and development experience of the Ethereum Blockchain platform. Students will participate in approximately 50% programming lab time providing practical experience, enhancing their knowledge and existing skill set.

About This Course

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Who Should Attend

Programmers Application DevelopersSystem Architects Network ArchitectsNetwork Security Architects IT Professionals w/programming experience

Learning Outcomes

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

Those who attend the Ethereum Development course and pass the exam certification will have a demonstrated knowledge of:An excellent overall understanding of the Ethereum architecture and Solidity language.All functional components (including smart contracts) required to develop an Ethereum Blockchain.The understanding of how to instantiate an Ethereum application on the network.An in-depth understanding of how transactions are created and implemented on an Ethereum network.

Detailed Course Outline

What is Blockchain and Smart Contracts

- What is Blockchain and how does it work
- Bitcoin vs Ethereum
- Smart Contract
- How you can use Smart Contracts
- Advantages of Smart Contracts
- Solidity
- LAB TASK
- Types of Variables in Solidity
- Public and Private Code
- Public Variables and Functions
- Private Variables and Functions
- Internal Functions
- External Functions
- Smart Contract Constructors
- Constant Variables
- Setting Variables
- LAB CHALLENGE

Smart Contracts With WEB3.JS

- LAB
- Installing & Running the Ethereum TestRPC
- Installing Web3.js
- Changing the Environment in Remix
- Creating the UI
- Using Web3.js to Connect & Interact with the Smart Contract
- SOLUTION
- LAB CHALLENGE

Smart Contract Events With WEB3.JS

- AIM
- LAB
- The Current Contract
- Defining the Smart Contract Event
- Updating the UI
- LAB CHALLENGE

Functions, Mappings and Structs

- THEORY
- Functions
- Mappings
- Structs
- LAB
- The Smart Contract
- Creating a Modifier
- Using the Modifier
- Web3 UIs Modifier Handling
- LAB
- Creating a Struct
- Creating the Mapping
- Map Addition
- Get from the Mapping
- The Full Contract
- Count from Map
- LAB CHALLENGE

Inheritance and Deployment

- THEORY
- Object-oriented programming
- Inheritance
- LAB
- Current Contract
- Creating a Base Contract
- Changing from Strings to bytes
- Continuing the Project
- Installing MetaMask
- Deploy Contract to the Ropsten Test Network
- LAB
- Update the HTML Form
- Update the JavaScript
- Using the App
- LAB CHALLENGE

Embark Framework and It's Deployment

- Blockchain (Ethereum)
- Decentralized Storage (IPFS)
- Decentralized Communication
- Web Technologies
- LAB
- Installing Embark Framework
- Hello World with Embark Framework
- First Contract Deployment with Embark Framework

Solidity Smart Contracts Testing

- THEORY
- What is Software Testing
- LAB
- LAB CHALLENGE

Contracts Management With Factories

- THEORY
- Factory
- LAB
- LAB CHALLENGE

IPFS Files Hosting

- THEORY
- IPFS
- FILES HOSTING
- LAB
- 1. Get your hosting server
- 2. Install IPFS on the Server
- LAB CHALLENGE

End to End Development of DAPP

- AIM
- LAB
- Setup the Project
- Program the Smart Contract
- Create the Front-end of the application
- Deploy the App with IPFS
- LAB CHALLENGE

Additional Course Details

Nexus Humans Ethereum Training - Blockchain Development Bootcamp 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 Ethereum Training - Blockchain Development Bootcamp 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 Ethereum Training - Blockchain Development Bootcamp?

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: How many CPD hours does this course provide?

The 3-day Ethereum Training - Blockchain Development Bootcamp course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Ethereum Training - Blockchain Development Bootcamp training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Ethereum Training - Blockchain Development Bootcamp?

Yes, we provide corporate training, dedicated training, and closed classes for Ethereum Training - Blockchain Development Bootcamp. 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: Why choose Nexus Human for Ethereum Training - Blockchain Development Bootcamp?

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 Ethereum Training - Blockchain Development Bootcamp training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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