

R3 Corda Blockchain Training: CorDapps Development

Duration: 3 Days Course Code: U67609G

Overview:

Learn how to write CorDapp using secure programming guidelines. This class will exclusively cover Corda nodes, Corda transactions and Corda tools through a comprehensive deep dive. This course has been meticulously put together and taught by world-class subject matter experts. The live training expert will spend over 50% of the time on labs covering the steps to integrate/develop an application with R3 Corda. There are use cases, proof of concepts, as well as interactive hands-on labs.

Target Audience:

This course is designed for programmers and developers.

Objectives:

- What you'll learn:
- Overview of Corda
- Principal features
- Concepts in Corda
- Consensus mechanism
- Business logic
- Comparisons/Main differences between Corda and Ethereum
- Introduction to CorDapp
- What is a CorDapp?
- How to write a CorDapp
- How to upgrade a CorDapp to a new version
- Corda API
- Object serialization
- Secure programming guidelines
- Corda Nodes
- Local nodes and how to execute them
- Deploying a Corda node
- Node configuration guidelines
- The Client RPC
- The Shell
- Node database system
- Node administration basics
- Integration testing
- Client RPC API and Smart Contracts Coding
- Overview of client RPC API
- Whitelisting classes from CorDapp
- Transactions
- Overview of Corda transactions
- Life cycle of Corda transactions
- Gathering inputs
- Generating commands
- Generating outputs
- Completing the transactions
- Committing transactions
- Modeling Business Processes
- Overview of workflows in Corda and continuation
- A 2-party trading workflow
- Suspendable functions
- White-listed classes and the Corda nodes
- Initiating the workflow
- How to implement the seller and the buyer
- Flow sessions
- Corda Tools
- Node Explorer

- Corda Ecosystem
- Setting up the network
- How to permission the network
- The Network Map
- Versioning process
- Programming Smart Contracts in Corda
- Writing a smart contract
- Writing a smart contract test
- Upgrading smart contracts
- Network Simulator
- How to implement Corda Network on AWS Marketplace
- Building a Corda VM from the Azure Marketplace
- Load testing in Corda networks
- Troubleshooting the CorDapp
- JVM issues
- IDEA issues
- Slow localhost issues

Prerequisites:

This course is highly technical and requires students to be comfortable with coding. To prepare for the class you must:

- Provide their own computer (Mac/PC/Linux) (note that all labs are hosted in a virtual environment)
- Have basic programming skills of C/C++ or Java Script
- Understand blockchain concepts

Content:

Please see the course objectives.

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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