



## **Block chain Training**

### **Who we are?**

Techeduxon has been a platform for global online technology education since 2015. We are now taking it up a notch higher by introducing ways of advanced learning to up-skill and cross-skill your profession with cutting-edge, customized programs. With our Top Tier IT & Enterprise training Courses, We enable you to the forefront & become 'Industry Ready' in this Advancing & Unforeseen Digital World with your up skill Innovations.

### **Block Chain Course Overview**

Its Course will provide you an overview of Bitcoin, Hyper ledger, Ethereum, and Multichain block chain platforms. In this course, you will use tools like Ganache, Truffle, Meta Mask, and Geth to build block chain applications, learn how to set up a private blockchain network using Hyper ledger Composer, and deploy smart contracts on Ethereum.

- Introduction to Blockchain
- Bitcoin Blockchain
- Ethereum
- Hyperledger & Hyperledger Composer
- Blockchain Prospects
- Blockchain on Multichain

### **Pre requisites**

One who have knowledge of Programming concepts like Linux fundamentals, Node. JSJS fundamentals and JavaScript are recommended.

### **Target audience**



Developers, Team leaders, Productmanagers, Business analyst, support professionals.

## Course Modules

### **Introduction to Blockchain**

- Introduction to Blockchain and its importance
- Blockchain Transaction Process
- Transaction Broadcast
- Miners and proof of work
- Block creation
- Transaction Record
- Blockchain platforms
- Application components and templates

### **Bitcoin Blockchain**

- Introduction to Bitcoin & ways to acquire them
- Bitcoin Address, Transactions
- Bitcoin script Instructions and construction
- Bitcoin network mode
- Mining in Bitcoin Blockchain
- Autonomous check of transactions
- Mining puzzle

### **Ethereum**

- Introduction to Ethereum and its concepts
- Ethereum virtual machine
- Types of Ethereum account



- Ethereum mining and ecosystem
- Ethereum framework
- Swarm, whisper

## **Hyperledger and Hyperledger Composer**

- Introduction to Hyperledger and It's Importance
- Hyperledger projects, Transaction and fabric
- Iroha
- Indy
- Hyperledger Architecture
- API & Network Topology in Hyperledger
- Hyperledger fabric model
- Chaincode
- Channels and Client Application
- Hyperledger composer
- Blockchain business network and template
- Testing business network

## **Blockchain Prospects**

- Introduction
- Challenges in blockchain
- Health care and Government Use Cases
- Blockchain in KYC, Trade Finance , Loan management, mortgage industry
- Blockchain in supply chain



## **Blockchain on Multichain**

- Introduction to Multichain & Multichain Architecture
- Permission in Multichain
- Multichain streams
- Mining in Multichain
- Multichain flexibility

### **Projects:**

#### **Project 1: A Finance Company's Business Network**

Build and test the business network of a finance company in Hyperledger Composer and deploy it on IBM Bluemix.

#### **Project 2: Healthcare Insurance**

Insta-Health has a new project that uses blockchain to automate its health insurance process. Develop a business network for patients to opt-in for health insurance.

#### **Project 3: Verification of User Identity**

A user is trying to access your application by entering their personal details. Develop a smart contract to verify user identity before allowing them access to your application.

#### **Project 4: Smart Contract for Movie Ratings**

An entertainment company wants to create a decentralized movie rating application. Build a smart contract for movie ratings and test it on a local block chain network.

## **Projects & Assignments**

Our Expert trainers will provide the real time Projects & Assignments.



Help  
Support

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