Blockchain Training

COURSE CONTENT

About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

Multisoft Systems offers comprehensive Blockchain Certification Training, equipping participants with in-depth knowledge of blockchain technology. The training covers core concepts such as blockchain architecture, consensus algorithms, smart contracts, and cryptocurrency.

Module 1: Introduction to Cryptocurrency and Networking

- ✓ Transformation in trading units
- ✓ Cryptography and Crypto-currency
- ✓ Anonymity and Pseudonymity in cryptocurrencies
- ✓ Digital Signatures
- ✓ Cryptocurrency Hash codes
- ✓ Peer to peer networks (structured and unstructured)

Module 2: Overview of Blockchain

- ✓ Introduction to Blockchain.
- ✓ Why Blockchain is crucial?
- ✓ Key vocabulary while discussing Blockchain
- ✓ Distinction between databases and blockchain
- ✓ Explaining Distributed Ledger
- ✓ Blockchain ecosystem
- ✓ Blockchain structure
- ✓ Working of blockchain technology
- ✓ Permissioned and permission-less blockchain

Module 3: Bitcoin and Blockchain

- ✓ Bitcoin and its History
- ✓ Why use Bitcoins?
- ✓ Where and how to buy bitcoins
- ✓ How to store bitcoins?
- ✓ How and where to spend bitcoins?
- ✓ Selling bitcoins

  - o Bitcoin transactions
  - o How bitcoin transactions work

      o   What happens in case of invalid transactions

- ✓ Parameters that invalidate the transactions
- ✓ Scripting language in bitcoin
- ✓ Applications of bitcoin script
- ✓ Nodes and network of bitcoin
- ✓ Various roles you can play in Bitcoin Ecosystem

Module 4: Bitcoin Mining

- ✓ Purpose of Mining
- ✓ Algorithm used in mining
- ✓ Mining hardware
- ✓ How bitcoin mining works?
- ✓ Bitcoin mining pools
- ✓ How cloud mining of bitcoin works?
- ✓ Mining Incentives
- ✓ Security and Centralizations

Module 5: Ethereum

- ✓ What is Ethereum?
- ✓ What is Ether?
- ✓ How to use Ethereum?
- ✓ The Ethereum ecosystem, DApps and DAOs
- ✓ How Ethereum mining works
- ✓ Learning Solidity

      o   Contract classes, Functions and conditionals

      o   Inheritance & abstract contracts

      o   Libraries

      o   Types & Optimization

      o   Global Variables

o   Debugging

✓ Future of Ethereum

Module 6: Setting up Private Blockchain Environment Using Ethereum Platform

✓ Private and public blockchain
✓ Various blockchain setup platforms
✓ Using Ethereum to setup private blockchain
✓ Steps to build a blockchain solution.
✓ Smart contract on Ethereum
✓ Compile, deploy and instantiate contracts
✓ Configuring, running and working with the go-Ethereum client
✓ Account management and mining
✓ Understand the different stages of a contract deployment
✓ How to interact with a contract once deployed?

Module 7: Prospects of Blockchain

✓ Blockchain prospering our world
✓ Blockchain transforming business and professionalism
✓ Discussing practical use-cases of blockchain

   o   How can we take Aadhaar Card on Blockchain
   o   How Blockchain can be used to remove corruption

✓ Real case scenarios of Blockchain

   o   Blockchain in Banking system
   o   Blockchain in Land Registry
   o   Blockchain in Capital Market