



Mecatredz Technology

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Blockchain Training Syllabus

Visit Our Official website : www.mtechnologies.org



Introduction & Overview

- What is Blockchain?
- Why Blockchain is better than traditional technologies?

BaaS

- Blockchain-as-a-Service
- Why Blockchain-as-a-Service from Azure?
- Azure Blockchain Solutions

Ethereum :

- Intro – What is Ethereum?
- Intro – What is Smart Contract?
- Intro – What is Solidity & Ethereum Virtual Machine?
- Intro – How do smart contracts work?
- ICO – What is Initial Coin Offering?
- ICO – How it works?
- DAO – What is DAO?
- DAO – Structure & How it works
- DAO – Security of DAO
- BaaS – Setting up Nodes Part – 1
- BaaS – Setting up Nodes Part – 2
- BaaS – Testing Wallet Transfer
- Solidity – Setting up Environment – REDOOO
- Solidity – Basics of Solidity by Example – REDOOO
- Solidity – Layout of the Solidity Smart Contracts
- Cryptocurrency – Minimal Viable Contract
- Cryptocurrency – Executing Minimal Viable Token
- Cryptocurrency – Adding Parameters to Cryptocurrency
- Cryptocurrency – Adding Balance Checks before Transfer
- Cryptocurrency – Adding Transfer Event for Logging
- Cryptocurrency – Adding transfer on behalf of Feature
- Cryptocurrency – Executing TCoin Stage 2
- Cryptocurrency – Improving Cryptocurrency-Adding Admin
- Cryptocurrency – Allowing Admin to Mint New Coins
- Cryptocurrency – Allowing Admins to Freeze or Unfreeze the Tokens
- Cryptocurrency – Adding Automatic Buy & Sell Feature
- Cryptocurrency – Adding Auto Refill Feature
- Cryptocurrency – Adding Proof of Work & Block Reward
- Cryptocurrency – Testing Full & Final Cryptocurrency

Multichain :

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- Multichain – What is Multichain?
- Multichain – Compatibility & Differences with Bitcoin Core
- Multichain – How to create a Blockchain?
- Multichain – How to connect to a Blockchain?
- Multichain – Commands in Interactive Mode
- Multichain – Using Native Assets & Transaction Metadata
- Multichain – Working with Multichain Streams
- Multichain – Round-robin Mining-How to Enable Mining?
- Multichain – Multichain Explorer
- Multichain – Multichain Web Demo
- PoE – Our App’s Architecture
- PoE – Setting up the Environment
- PoE – Setting up Blockchain (Multichain) Nodes
- PoE – Creating Web API for Publishing & Verifying Data to & from Blockchain – 1
- PoE – Creating Web API for Publishing & Verifying Data to & from Blockchain – 2
- PoE – Publishing Proof-of-Existence through Web Interface
- PoE – Checking PoE in using Multichain
- PoE – Verifying Published PoE through Web Interface

Hyperledger Fabric

- What is Hyperledger?
- What is Hyperledger Fabric?
- Comparison between Fabric & Other Technologies
- Fabric Architecture
- Components of Hyperledger Fabric
- Advantages of Hyperledger Fabric Blockchain
- How Hyperledger Fabric Works?
- Bluemix – Launching Fabric Blockchain Bluemix
- Bluemix – Understanding Interface
- Bluemix – Interacting with Fabric Blockchain