



Certified Blockchain Solutions Architect (CBSA)

Module 1: Certified Blockchain Solutions Architect Overview

- 1.1 Module 1 Introduction
- 1.2 What is a CBSA
- 1.3 Exam Questions
- 1.4 Exam Objectives

Module 2: Blockchain 101 Terminology and Components

- 2.1 Module 2 Introduction
- 2.2 What is a Blockchain
- 2.3 Blockchain Terminology
- 2.4 Blockchain Key Components

Module 3: Exam Objectives

- 3.1 Module 3 Introduction
- 3.2 Proof of Work, Proof of Stake, Other Proof Systems
- 3.3 Why Cryptocurrency is Needed
- 3.4 Public, Private, and Permissioned Blockchains
- 3.5 How Blocks are Written to a Blockchain
- 3.6 Block Activity Demo
- 3.7 Transactions Whiteboard
- 3.8 Cryptography
- 3.9 LTC Wallet Demo
- 3.10 Database or Blockchain
- 3.11 Public Blockchain Common Uses
- 3.12 Private & Permissioned Blockchain Common Uses
- 3.13 Launching Your Own Blockchain
- 3.14 Segwits and Forks
- 3.15 Mining
- 3.16 Byzantine Fault Tolerance
- 3.17 Consensus Among Blockchains
- 3.18 Hasing
- 3.19 Anders Hashing Demo
- 3.20 Security in Blockchain
- 3.21 Smart Contracts and dApps
- 3.22 History of Blockchain
- 3.23 Blockchain Programming Languages
- 3.24 Common Testing and Deployment Practices
- 3.25 Metamask Demo

- 3.26 Value Creation
- 3.27 Blockchain Architecture
- 3.28 Corda Blockchain Architecture Whiteboard
- 3.29 Enterprise Blockchains
- 3.30 Bitcoin Improvement Protocols

Module 4: Hyperledger

- 4.1 Module 4 Introduction
- 4.2 Hyperledger Project
- 4.3 Hyperledger Fabric
- 4.4 Hyperledger Chaincode
- 4.5 Hyperledger Fabric Whiteboard
- 4.6 Hyperledger Fabric on AWS Demo

Module 5: Ethereum

- 5.1 Module 5 Introduction
- 5.2 Ethereum Overview
- 5.3 Ethereum EVM
- 5.4 Ethereum Browsers
- 5.5 Ethereum Development
- 5.6 Etherscan Demo

Module 6: Course Closeout

- 6.1 Module 6 Introduction
- 6.2 Summary Review
- 6.3 Taking the CBSA Exam
- 6.4 Practice Question