

Certified Blockchain Solution Architect (CBSA)

Course Contents

The Modules covered in CBSA course are as follows:

Module 1- Introduction

- Introduction to Certified Blockchain Architect

Module 2- Blockchain Architecture Basics

- What is Blockchain?
- How Blockchain works?
- How Blockchain is different from traditional technologies?
- Is Blockchain a Silver Bullet?
- Blockchain Decision Overview
 - Digital Assets and Multiple Parties
 - Technical Approach
 - Network Configuration
 - Deciding Factors

Module 3- Tools required for Blockchain Architecture

- Additional Technologies Supporting Blockchain
- Programming Languages you can use to Build Blockchain solutions.
- Cryptography and Blockchain Algorithms
- Overview of Blockchain Platforms
 - Public Platforms
 - Commercial Platforms
- Blockchain Functional Architecture
- Blockchain Environment Considerations
 - Public vs Private
 - Permissioned vs Permissionless
 - Cloud vs Native

Module 4- Developing your own Network Nodes

- Blockchain Functional Risks
 - Transaction costs
 - Interoperability
- Additional Blockchain technologies
 - On Chain vs Off Chain
 - Lightning Network
 - CoCo Framework
 - Smart Contracts

- Oracles
- Business Components of Blockchain Architecture
 - Problem
 - Stakeholders
 - Devices
 - Type of Blockchain
- Technical Components of Blockchain Architecture
 - Ledger
 - Smart Contracts
 - P2p Network
 - Membership
 - Protocols

Module 5- Architecting your own Blockchain Solution

- Analyze requirements
- Translate requirements into functions
 - Transactions
 - Blocks
 - Data Privileges
 - Data Processing
- Architecture of Blockchain Platforms
 - Multichain
 - Ethereum
 - Hyperledger
 - Hyperledger Fabric Architecture
 - Hyperledger Composer Architecture
- Corda
 - Corda Architecture