Certified Blockchain Architect

Introduction

Certified Blockchain Architect^{TM}

- Certified Blockchain Architect training and certification enables you to gain expert understanding and exposure of the blockchain domain. CBA training entitles you to utilize your expertise to make important decisions related to the blockchain project and craft the guidelines and structure of the whole blockchain system, considering the requirement of the system.
- As the demand for Certified Blockchain Architect is soaring, this certification will prove to be your competitive advantage giving enterprises confidence in the quick hire.

The Purpose

- Establish and govern minimum standards for credentialing Blockchain Architects who specialises in designing a blockchain application.
- Inform the public that credentialled individuals meet or exceed the minimum standards.
- Reinforce Blockchain Architecture as a unique and self-regulating profession.

For Whom

- Software Engineers & Architects
- Application Architects
- Programmers & Developers
- Consultants & Advisors
- University Professors
- Operations Head in Blockchain Businesses
- Senior Government Officials
- Security Professionals, Administrators

Benefits of taking this Course

- Prove your Blockchain architect skills & understanding.
- Grasp a deeper understanding of Blockchain & how it works.
- Utilize your architecture skills for any Blockchain projects.
- Build your own Blockchain project with acquired knowledge.

Blockchain Council™

Requirements to take this Certification

- Basic knowledge of Blockchain.
- Awareness of different blockchains (i.e Bitcoin, Ethereum, Stellar).
- Motivation to acquire a deep understanding of Blockchain.

Recommended Experience

There is no such recommended experience required for getting this certification.

Duration for the Course

- 10 hours for the entire training.
- 1 hour for assessment exam.
- Training will be Instructor-Led.
- Exam can be consumed as per candidate's availability & online speed.

Exam

- There will be an online exam with multiple choice questions adding upto 100 marks followed by a training.
- You need to acquire 60+ marks to clear the exam.
- In case you fail the exam, you can retake the exam after 1 day.
- You can take the exam for a maximum of 3 times.
- If you fail to acquire 60+ marks even after 3 attempts, you will need to contact the Blockchain Council team to have manual assistance for clearing the exam.

Certificate

Course Content

- Introduction to Certified Blockchain Architect

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

Course Content

- **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

Course Content

- **Developing your own network nodes**
  - Blockchain Functional Risks
    - Transaction costs
    - Interoperability
  - Additional Blockchain technologies
    - On Chain vs Off Chain
    - Lighting Network
    - CoCo Framework
    - Smart Contracts
    - Oracles
  - Business Components of Blockchain Architecture
    - Problem
    - Stakeholders
    - Devices
    - Type of Blockchain

Course Content

- **Technical Components of Blockchain Architecture**
  - Ledger
  - Smart Contracts
  - P2p Network
  - Membership
  - Protocols

- **Architecting your own Blockchain Solution**
  - Analyze requirements
  - Translate requirements into functions
    - Transactions
    - Blocks
    - Data Privileges
    - Data Processing

Course Content

- **Architecting your own Blockchain Solution (Contd..)**
  - Translate Stakeholders into nodes
    - Node Creation and Management
    - Node Data Communication and Processing
  - Define roles for nodes
    - Identity
    - Privacy
    - Security
  - Sandbox or ground-up the platform
  - Define development resources: Programming Frameworks and Programmers
  - Blockchain Development
  - Blockchain Hosting
  - Blockchain Support

Course Content

- **Blockchain Security and Implementation**
  - Government Regulations
  - Legal Issues
  - Loopholes
  - Hurdles
  - Common Mistakes

- **Blockchain Risk Management**
  - Enterprise Risk
  - Operational Risk
  - Market Risk System Risk

THANK YOU!

Any questions?
You can mail us at
hello@blockchain-council.org