

iTrainTM

BLOCKCHAIN

MAJOR CORPORATIONS USE BLOCKCHAIN TO MONITOR ASSETS AND PERFORM SWIFT TRANSFERS TO ALL PARTS OF THE WORLD



! Now is the time to advance beyond theoretical gains of Blockchain and improve overall economic outlook by generating blue chip revenues.

i Blockchain has been nominated among the top rising skills among professionals with target occupations like Blockchain Developer, Chief Technology Officer, and Blockchain Consultant.

Source:LinkedIn

Visit itrain.com.my to register and turn overleaf for more course information

Certified Blockchain Associate Developer

Course Overview

Popularized by Bitcoin and the rise of cryptocurrencies, Blockchain technology as a solution is rapidly gaining awareness among key industries. With it comes a rapidly growing market for blockchain developers capable of ideating solutions and developing/implementing the tech itself.

Certified Blockchain Associate Developer course guides trainees from the apprehension of blockchain technology fundamentals, all the way to the development of an attainable blockchain business model.

With hands-on practise and detailed instructor guidelines, trainees will be able to walk away with clear aspects of efficiency and accuracy to be applied to operations, both business and government. Venture into the high-potential blockchain technology and gain dynamic expertise in being a security asset for any industry.

Learning Outcomes

Upon completion of this course, you will be able to:

- Understand Data Structures, Cryptography and Encryption methods
- Create and deploy your own smart contract

Prerequisites

Candidates must have basic knowledge of Computer Science & IT and preferably highly motivated on Blockchain Development.

Who Should Attend

IT Developers, Programmers, Software Architects, Engineers, Security Professionals, Security Administrators, Application Architects, Computer Science or Engineering Students, or anyone who wishes to learn Blockchain Development.

Exam Format

Exam duration is 2 hours, consisting of 40 Multiple Choice Questions, with a Passing Score of 70%.

- Understand Blockchain Technology and its underlying fundamentals.
- Know Virtual Machine work and why we need them

Course Outline

Day 1 Theory

Blockchain fundamentals

- What is Distributed Ledger?
- What is Blockchain?
- Why does Blockchain have 'blocks'?
- Public Keys, Private Keys & Address
- Types of DLT networks
- Access types in blockchain
- What is Hash?
- What is Merkle Tree?
- What is a double-spend Problem?

Understanding Consensus and Validation

- What is Consensus?
- Different types of Consensus
- Why Consensus matters in a DLT?
- What are virtual machines and why are they needed in a DLT?

Ethereum Fundamentals

- What is Ethereum?
- What is Ether?
- What are the ether units?
- What is Smart Contract?
- What is Dapps?
- What is DAO?

Ethereum Development Ecosystem

- What is Mist and How it works?
- What is Metamask?
- What is Remix?
- Development with Truffle
- How to fund your test net account

Q&A

Day 2 Hands on Development

Introduction to Solidity

- Solidity Basics
- Contract classes, Functions and conditionals
- Global variables
- Inheritance and abstract contracts
- Libraries

Solidity in Depth

- Types & Optimization
- Global Variables
- Debugging

Connecting to Ethereum

Geth Overview

Q&A

Day 3 Hands on Development

Introduction to WebJs

- Building an interface to interact with a smart contract
- Setting up event-driven interfaces

Dapp DevOps Fundamentals

Let's code a Dapp together

Q&A

Course Outline

Day 4 Hands on Development

Truffle fundamentals

- Write functional tests for smart contracts
- How to manually test contract functionality

Dapp Development 2

- Instantiate web3 and communicate with a contract from HTML page
- Use client-side signing and remote nodes for light DApps
- How does web3 and truffle work with Node.js

Dapps DevOps Overview

Dapp Development Assignment

Dapp Evaluation

Day 5 Theory

Business with Blockchain

Tokenomics 101

- What is Cryptocurrency
- What is DeFi
- What are NFTs and what is all the raising fuzz about?

Building a Blockchain Business model (Exercise)

- DeFi Applications
- Current Financial System

Q&A

Setting up for Exam

Testimonials

Hear What Our Students Have To Say



“Nowadays a lot of businesses are taking the blockchain model, so if you want to learn more about blockchain, you must attend this class”

KHEW JIA PENG, BizAid Technologies Sdn Bhd

