Learn to Deliver & Manage

BLOCKCHAIN

Blockchain

Course Overview

Blockchain is a distributed digital ledger. It is an official record-keeper that can be used to verify data transactions over time in a way that is both open and virtually unbreakable. It works by recording transactions (blocks) on multiple specialized servers around the world, creating a distributed record of transactions (the chain) that can be verified against one another to determine authenticity. The only way to tamper with a blockchain is to break into every server containing a copy of the chain at once – not an impossible feat, but extraordinarily difficult for even the most

Course Duration and Fees Structure

This is a two days course syllabus and is a classroom-based instructor-led one.

Language: English

Who Should Attend

This course is designed for professionals within the financial industry seeking to understand blockchain better and its potential business applications however all are welcome regardless of where you stand on the Bitcoin or blockchain knowledge spectrum

Benefits of Attending

After completing this course, you will be able to:

- Course attendees will learn the basics of blockchain - how it is created, how it works, and what are the drivers for using blockchain technology in today's securities transaction landscape
- This two day workshop will help you understand the fundamentals of blockchain and how it is being developed within different segments of the financial & other services industry
- During this interactive programme, you will have the opportunity to devise your own 'use case' and create your own blockchain solution for your organization

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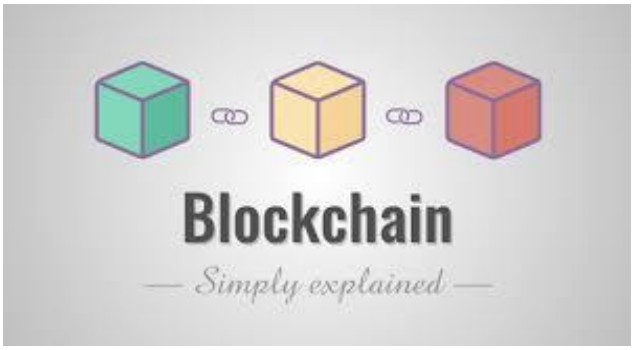
Course Objectives

This Blockchain Certification course offers a hands-on training covering relevant topics in cryptocurrency and the wider Blockchain space. From a technological standpoint, you will develop a strong grasp of core Blockchain platforms, understand what Bitcoin is and how it works, learn key vocabulary and concepts commonly used when discussing Blockchain and understand why engineers are motivated to create an app with Ethereum. Hands-on exercises and projects will give you practical experience in real-world Blockchain development scenarios.

Course Contents:

The following Modules are included in this course:

- Module 1: Introduction to Blockchain
- Module 2: Bitcoin and Blockchain Data Structures
- Module 3: Creating the Blockchain: Mining
- Module 4: Buying and selling Bitcoin
- Module 5: Extending the Blockchain
- Module 6: Bitcoin/Blockchain Adoption
- Module 7: Emerging trends in blockchain



Detail course outline for Blockchain :

Day 1

Module 1: **Introduction to Blockchain**

- Blockchain origins
- Blockchain objectives
- Blockchain users and adoption
- Blockchain challenges
- New developments in blockchain
- Remainder of course description

Module 2: Bitcoin and Blockchain Data Structures

- Bitcoin/Blockchain data structures and identifiers
- Asymmetric keys
- Hashes
- Blockchain transactions
- Blockchain block structure

Module 3: Creating the Blockchain: Mining

- The bitcoin network
- Placing transactions into blocks
- Creating blocks and adding to the blockchain
- Managing consensus
- Mining hardware and pools

Module 4: Buying and selling Bitcoin

- What is Bitcoin source
- The role of exchanges
- Bitcoin wallets - Physical,Mobile and Online

Day 2

Module 5: Extending the Blockchain

- Why Extend the Blockchain?
- Altcoins
- Colored Coins
- Side Contracts

Module 6: Bitcoin/Blockchain Adoption

- Initial Adoption
- Understanding Adoption Trends
- Adoption Metrics
- Blockchain Demographics
- Blockchain Geographic Distribution
- The Move Toward the Mainstream

Module 7: Emerging trends in blockchain

- Transaction limitations
- Additional blockchains
- Blockchain and cloud computing

Module 8: Blockchain innovation

- Innovation theory
- Innovation opportunities in blockchain
- Blockchain investment trends
- Blockchain FinTech innovation
- Blockchain startup innovation

Module 9: Blockchain and Public Policy

- Bitcoin/blockchain background
- Elite opinion
- The move to the mainstream
- Central banks
- Governmental regulators
- Public policy response
- Politicians get on the bandwagon