



Consulting and Training | Reach New Heights

Course Name

Mastering Blockchain: Exploring Future of Blockchain Technology

Sector Name

Digital Transformation and Innovation

Document Type

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Mastering Blockchain: Exploring Future of Blockchain Technology

Course Introduction

Mastering blockchain technology can be challenging, as this technology demands the use of decentralized consensus to maintain the network. This implies that it is not necessarily controlled by any bank, corporation, or government. With the emergence of bitcoin and blockchain, professionals in the technology and finance fields must be able to learn how blockchain works and explore the evolution and current state of cryptocurrencies, and future trends in blockchain technology. This training course is designed to provide participants with blockchain technology applications and the new developments of global companies in their blockchain work.

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Target Audience

- ✓ Business and technology leaders
- ✓ Business Unit Managers
- ✓ Business Development Consultants
- ✓ General Managers / Regional Managers
- ✓ Senior and mid-level leaders
- ✓ Individual leaders of all levels in the organization
- ✓ Art Director
- ✓ Marketing Consultants
- ✓ Marketing Development Manager

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Learning Objectives

- ✓ Gain a comprehensive understanding of the relevant concepts of blockchain technology and the Bitcoin blockchain protocol.
- ✓ Identify the key applications of blockchain technology.
- ✓ Learn the concepts behind cryptocurrencies, digital ledger, and Ethereum, and appreciate the importance of each in the field of technology and finance.
- ✓ Recognize and familiarize oneself with the latest global trends in blockchain and the new generation technology & shift of blockchain.

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Course Outline

✓ Day 01

Exploring Blockchain Technology

- ✓ Understanding Two Types of Blockchains
- ✓ What is the Bitcoin Blockchain Protocol?
- ✓ Examining the Promise of Permissionless Blockchains
- ✓ Applications of Blockchain Technology
- ✓ Exploring Smart Contracts
- ✓ Using Smart Contracts in Business
- ✓ Solving Challenges in Smart Contract Deployment

Cryptography Essentials

- ✓ Securing Messages with Private-Key Encryption
- ✓ Securing Messages with Public-Key
- ✓ Verifying the Origin of Messages with Digital Signatures

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Course Outline

✓ Day 02

Digital Ledger

- ✓ Short History of Money and Trust
- ✓ Fundamentals of Blockchains
- ✓ Bitcoin Mechanics
- ✓ Other Applications of Blockchains

Introduction To Ethereum

- ✓ The need for Ethereum, the Ethereum Foundation, Accounts & their creation
- ✓ How Ethereum Works
- ✓ Ethereum network
- ✓ Ethereum Virtual Machine
- ✓ Transactions and Types
- ✓ Gas - Transactional Fee & Incentivisations
- ✓ Blockchain Structure & Formation
- ✓ Mining & Consensus
- ✓ Smart Contracts
- ✓ Consensus - PoW

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Course Outline

✓ Day 03

Alternate Public, Federated, And Private Blockchain And Comparisons

- ✓ Limitations of Public Blockchains
- ✓ Private and Consortium Blockchain: Benefits of Private Blockchain
- ✓ Why Quorum and what it has
- ✓ Quorum Architecture Components
- ✓ Quorum Transaction Processing and Privacy
- ✓ Quorum consensus o Explanation of Raft
- ✓ Security and network permissioning
- ✓ Quorum setup
- ✓ Develop using Quorum
- ✓ Running quorum nodes (Maker, Observer, Voter) o developing a smart contract
- ✓ Running permissioning
- ✓ Quorum API
- ✓ Corda Key concepts

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Course Outline

✓ Day 04

New Generation Technology & Shift Of Blockchain

- ✓ Top Global companies and their work in Blockchain technology
- ✓ New developments in Blockchain technologies & looking forward
- ✓ Case Study and Analysis: EOS
- ✓ Building an application on EOS
- ✓ Case Study and Analysis: Auxledger
- ✓ Interoperability and Customizability with Auxledger
- ✓ Integration of Blockchain with other technologies: IoT, AIML, and Big Data
- ✓ Process excellence & Mistake-proofing requirements

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Course Outline

✓ Day 05

Global Trends In Blockchain Uses

- ✓ Blockchain and Banking & Financial Services
- ✓ Blockchain and the Healthcare Industry
- ✓ Blockchain and Supply-Chain Industry
- ✓ Blockchain and identity
- ✓ Current projects around the world
- ✓ Blockchain and the Utilities Industry

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 22, 2026	June 26, 2026	5 days	4950.00 \$	Austria , Vienna
Aug. 30, 2026	Sept. 3, 2026	5 days	4250.00 \$	Bahrain , Manama
Dec. 7, 2026	Dec. 11, 2026	5 days	4250.00 \$	UAE , Dubai
March 29, 2027	April 2, 2027	5 days	4250.00 \$	UAE , Dubai

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