

€ TRAINING

Blockchain and Crypto Fundamentals



1 - 5 December 2024
Cairo (Egypt)



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REF: B1747 DATE: 1 - 5 December 2024 Venue: Cairo (Egypt) - Fee: 4095 Euro

Introduction:

This training program provides participants with essential knowledge and skills in blockchain technology and cryptocurrencies. It empowers them to understand the foundational principles and practical applications of these transformative technologies.

Program Objectives:

At the end of this program, participants will be able to:

- Understand the foundational principles of blockchain technology.
- Identify the key features and benefits of cryptocurrencies.
- Explore the various applications and use cases of blockchain.
- Recognize the regulatory and security considerations associated with cryptocurrencies.
- Apply knowledge to assess and implement blockchain and cryptocurrency solutions.

Targeted Audience:

- IT Professionals.
- Financial Analysts.
- Business Executives.
- Cryptocurrency Enthusiasts.
- Technology Consultants.

Program Outline:

Unit 1:

Introduction to Blockchain Technology:

- Overview of blockchain technology and its key components.
- Understanding blockchain architecture blocks, chains, nodes.
- The concept of decentralization and distributed ledgers.

- Types of blockchain public, private, consortium.
- Key blockchain platforms and technologies.

Unit 2:

Fundamentals of Cryptocurrencies:

- Basics of cryptocurrency and how it works.
- Overview of major cryptocurrencies Bitcoin, Ethereum, etc..
- Understanding digital wallets and cryptocurrency exchanges.
- The concept of mining and consensus mechanisms.
- Regulatory and legal considerations for cryptocurrencies.

Unit 3:

Applications of Blockchain Technology:

- Enhancing transparency and traceability in transactions.
- Improving security and data integrity.
- Reducing costs and increasing efficiency in operations.
- Enabling smart contracts and automated processes.
- Applications in supply chain management, healthcare, and finance.

Unit 4:

Benefits and Challenges of Cryptocurrencies:

- Advantages of decentralization and financial inclusion.
- Lower transaction fees and faster cross-border payments.
- Potential for high returns and investment opportunities.
- Security risks and regulatory challenges in cryptocurrency.
- Environmental concerns related to cryptocurrency mining.

Unit 5:

Future Trends and Innovations:

- Emerging technologies and innovations in blockchain and cryptocurrency.
- Evaluating the impact of blockchain on various industries.
- Exploring decentralized finance DeFi and non-fungible tokens NFTs.
- Strategic considerations for adopting blockchain and cryptocurrency.
- Future directions and potential developments.