

# € TRAINING

Blockchain and Crypto Fundamentals



17 - 21 November 2024  
Sharm El-Sheikh (Egypt)



# Blockchain and Crypto Fundamentals

REF: B1747 DATE: 17 - 21 November 2024 Venue: Sharm El-Sheikh (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.