

ICA Learning: Demystifying Crypto

By the end of the course, learners will be able to:

- Explain the background of cryptocurrency and describe the application of it within the financial services industry
- Identify the vulnerabilities of cryptocurrency with regards to both users and organisations that prepare to adopt it
- Describe several technical facets within cryptocurrency, including how it works, and explain the risks involved
- Outline the essentials required to take a risk-based approach when considering the adoption of new technologies

Course format, certification and pricing

- 3 hours of learning material
- MCQ knowledge check with Certificate of Completion
- £200 - volume discounts available



1. Distributed ledger technologies blockchains

- Financial services and technology
- Perceptions of FinTech and Financial Crime
- Benefits of digital technology
- Benefits of Distributed Ledger Technologies
- Blockchain components
- Understanding network components
- Types of consensus algorithms
- Types of blockchain
- Application of blockchain to financial services
- Transactions
- Hashing
- Merkle Trees
- Blocks
- Mining

2. Cryptocurrencies

- The relationship between cryptocurrencies and fiat
- Why cryptocurrencies are attractive to criminals
- Use of terminology for virtual currencies
- Bitcoin: key features
- Factors that determine Bitcoin's value
- Understanding cryptographic keys in Bitcoin
- Transactions
- Key stages in a transaction
- Wallets for storing Bitcoins
- Altcoins
- Mixing services
- What are crypto assets?
- Tokenisation
- Distributed Applications (DApps)
- Initial Coin Offerings (ICOs)
- Stablecoins
- Central Bank Digital Currencies (CBDCs)
- BigTechs

3. Managing the risk from crypto-assets

- Reducing crime using Advanced Data Techniques: Artificial Intelligence, Machine Learning, Deep Learning
- Technology outpaces regulatory response
- Self-regulation by innovators
- Regulatory response

