# Blockchain Business Foundations (CBBF)

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| CODICE | **DT0321** |
| DURATA | **3 gg** |
| PREZZO | **1.240,00 €** |
| EXAM | |

## DESCRIZIONE

Formazione che introduce le applicazioni della tecnologia blockchain nel contesto aziendale. Ideale per aziende che vogliono sfruttare la blockchain per innovare i modelli di business e migliorare la sicurezza e la trasparenza.

## OBIETTIVI RAGGIUNTI

Acquisire le conoscenze utili per preparare l'esame di certificazione: Certified Blockchain Business Foundations (CBBF)

## TARGET

Questo corso è progettato per figure manageriali non squisitamente tecniche coinvolti in processi decisionali relativi all'impiego e integrazione della tecnologia Blockchain nelle attività di business.

## PREREQUISTI

Nessuno

## CONTENUTI

# What is Blockchain?

- Micronesian island of Yap
- Yap coins
- Blockchain from a human perspective
- Ledger in the history
- What Is a Consensus Mechanism?
- Assets in Blockchain
- Trustlessness and Blockchain
- Blockchain History and Bitcoin
- Blockchain e Cryptovalute

# Cryptocurrency and Blockchain

- Blockchain vs Internet
- Double Spending
- Cryptocurrencies vs Fiat Currencies
- Bitcoin vs Blockchain
- Cryptocurrency
- Tocken vs. Criptocurrency
- Use of Coloured coin
- ICO/ITO

# Blockchain decentralized architecture

- Architecture Approaches evolution
- Decentralized Infrastructure
- Blockchain pros
- Blockchain cons
- Peer to Peer
- Decentralized Networks and Ledger
- Full Nodes
- Types of Blockchain
- DLT
- Permissoned vs. Permissionless

# How does a Blockchain work?

- What is a “block”?
- A real case
- Group Consensus
- Blocks “Chained” Together
- Cryptographic hash
- Bitcoin block structure
- Merkle Tree
- Mining a block
- Forks
- Hard Forks vs Soft Forks
- History of Bitcoin Cash BCH
- Byzantine Generals’ Problem
- Byzantine Generals’ and Blockchain
- Proof of work
- How does a 51% attack work?
- P+Epsilon Attack
- The Mystery Behind Block Time

- What if we increase the blocksize?
- Proof of Stake
- Nothing at stake
- Hyperledger Fabric’s consensus

# Blockchain evolution and usecases

- Ethereum
- Blockchain 2.0 and Ethereum
- Smart Contracts
- Private Keys, Public Keys and Accounts
- Turing VM and Gas
- Gas
- Blockchain Networks
- Tocken/Coins
- ECR20 example
- Dev References
- Blockchain Use Cases
- Summarizing Whys
- Tech Challenges
- Blockchain Implementation
- Implementation Challenge
- Main platforms

# Exam simulation