

# BLOC-1 - BLOCKCHAIN BUSINESS FOUNDATIONS

Categoria: **Blockchain**

## INFORMAZIONI SUL CORSO



Durata:  
3 Giorni



Categoria:  
Blockchain



Qualifica Istruttore:  
Docente Senior (min.  
5 anni)



Dedicato a:  
Analista



Produttore:  
PCSNET

## OBIETTIVI

Questo corso introduce ai vari aspetti della tecnologia Blockchain ed è progettato per figure manageriali non squisitamente tecniche coinvolte in processi decisionali relativi all'impiego e all'integrazione di questa tecnologia nelle attività di business.

## PREREQUISITI

Nessuno

## CONTENUTI

### Module 1 - 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 and Cryptovalute

### Module 2 - Cryptocurrency and blockchain

- Blockchain vs Internet
- Double Spending
- Cryptocurrencies vs Fiat Currencies
- Bitcoin vs Blockchain
- Cryptocurrency
- Token vs Criptocurrency
- Use of Coloured coin

-ICO/ITO

### **Module 3 - 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
- Permissioned vs Permissionless

### **Module 4 - 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

### **Module 5 - 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
- Token/Coins
- ECR20 example
- Dev References

- Blockchain Use Cases
- Summarizing Whys
- Tech Challenges
- Blockchain Implementation
- Implementation Challenge
- Main platforms

## INFO

**Esame:** CBBF - Certified Blockchain Business Foundations

**Materiale didattico:** Materiale didattico in formato digitale

**Costo materiale didattico:** incluso nel prezzo del corso a Calendario

**Natura del corso:** Teorico Metodologico