BLOC-1 - BLOCKCHAIN BUSINESS FOUNDATIONS

Categoria: **Blockchain**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
3 Giorni	Blockchain	Docente Senior (min. 5 anni)	Analista	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
-Permissoned 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