

BLOC-3 - BLOCKCHAIN DEVELOPING ON HYPERLEDGER FABRIC

Categoria: **Blockchain**

INFORMAZIONI SUL CORSO



Durata:
3 Giorni



Categoria:
Blockchain



Qualifica Istruttore:
Docente Senior (min.
5 anni)



Dedicato a:
Sviluppatore



Produttore:
PCSNET

OBIETTIVI

Al termine del corso i partecipanti saranno in grado di:

- Conoscere l'importanza di Blockchain e in quali ambiti
- Esplorare i principali componenti di Blockchain
- Conoscere Hyperledger Fabric e la struttura dell'architettura Hyperledger
- Esplorare l'architettura di Hyperledger Fabric
- Creare applicazioni su Hyperledger Fabric

PREREQUISITI

È necessario avere:

- Conoscenza di base su Go & Node JS
- Familiarità per Command Line Interface

CONTENUTI

Module 1 - Introduction To Blockchain

- What Is Blockchain
- Type of Networks in Blockchain
- The Need for Blockchain
- Components of Blockchain
- Asset Transfer Example on Blockchain

Module 2 - How Blockchain Works

- Introduction
- Structure of Blockchain
- Different Types of Consensus Algorithms
- Separate Functions (actors) of Blockchain

Module 3 - Introduction to Hyperledger

- What is Hyperledger
- Why Hyperledger
- Composer Modeling Language
- Other Hyperledger Modules and Platforms
- Hyperledger Application
- Hyperledger Architecture
- Membership
- Blockchain's Main Components
- Transaction
- Chaincode
- REST Server
- Hyperledger Fabric

Module 4 - Hyperledger fabric fundamentals

- Introduction
- Fabric Definitions
- Distributed Ledger
- Nodes
- Channels
- Node Types: Ordered, Anchor & Endorser
- Membership Service Provider (MSP)
- Certificate Authority

Module 5 - Participant, identities & access control

- Introduction
- Participants and identities

Module 6 - Hyperledger – client app

- Introduction
- High Level Architecture

Module 7 - Creating front end interactive interfaces

- Introduction
- Front End Application Patterns

Module 8 - Chaincode

- Importing of other files
- Choosing a location for the chaincode
- Initializing and invoking chaincode
- Implementing the chaincode application
- Putting All The Code Together

Module 9 - Hyperledger composer

- Foreword
- What is Hyperledger Composer ?
- Connection Profiles
- Business Network Cards
- Queries and Events
- Access Controls and Historian Registry

- Architecture
- Modeling Language
- Composer System Namespaces
- Declaring Resources
- Concepts
- Primitive Types
- Arrays
- Relationships
- Field Validators
- Imports and Decorators

INFO

Esame: CBDH - Certified Blockchain Developer Hyperledger Fabric

Materiale didattico: Materiale didattico e relativo prezzo da concordare

Costo materiale didattico: NON incluso nel prezzo del corso

Natura del corso: Operativo (previsti lab su PC)