

## Developing on Hyperledger Fabric Blockchain

Varighed: 2 Days    Kursus Kode: U67927G    Leveringsmetode: Virtuel deltagelse

### Beskrivelse:

This instructor-led Hyperledger training course is designed for developers and who want to take a comprehensive deep dive on Hyperledger Fabric v1.4.

This training course has been created to walk you through Chaincode Development, Testing, and Deployment for a Hyperledger Fabric Network catering specifically toward Golang written Chaincode (Fabric's original Chaincode Language). Additionally as an Application Developer you will learn how to write, and prepare Client Applications using the most mature Standard Development Kit in Hyperledger Fabric, NodeJS. There are use cases, proof of concepts, as well as interactive lab work about the concepts.

#### Virtuel deltagelse

Et V&C Select kursus indholder nøjagtig det samme som et almindeligt kursus. Før kursusstart modtager man kursusmaterialet. Dernæst logger man på kurset via internettet og ser via sin pc den selvsamme præsentation som de øvrige deltagere, man kommunikerer via chat med underviseren og de øvrige deltagere på kurset. Denne uddannelsesmodel er både tids-og omkostningsbesparende og kan være et oplagt alternativ til almindelig klasseundervisning, hvis man f.eks. har et begrænset rejsebudget.

### Agenda:

- Understand why Blockchain is needed and where
- Explore the major components of Blockchain
- Learn about Hyperledger Fabric and the structure of the Hyperledger Architecture
- Learn the features of the Fabric model including chaincode, SDKs, Ledger, Security and Membership Services
- Perform comprehensive labs on writing chaincode
- Explore the architecture of Hyperledger Fabric
- Understand and perform in depth labs on Bootstrapping the Network
- Perform comprehensive labs to integrate/develop an application with Hyperledger Fabric running a smart contract
- Build applications on Hyperledger Fabric

### Forudsætninger:

This course is highly technical in nature and would require the student to be comfortable with coding. To prepare for the class all students MUST:

- Familiarity with Hyperledger Fabric Component Structure & purposes
- Knowledgeable on Golang Basics & Node JS basics
- Minimal Command Line Interface Familiarity

## Indhold:

- Blockchain Basics (Overview)
- Hyperledger Fabric Development Environment
- Knowing the Difference: Composer
- Chaincode Use Cases
- Chaincode Basics
- Golang Shim Development
- Databases for the Developer
- Chaincode Dev. Deployment and Interactions
- Clients ; SDK Development: Fabric-Network
- Clients ; SDK Development: Fabric-Client Interactions
- Logging and Monitoring

Lab: Setting up the Developer Environment

- Blockchain Basics (Overview)
- Hyperledger Fabric Development Environment
- Knowing the Difference: Composer
- Chaincode Use Cases
- Chaincode Basics
- Golang Shim Development
- Databases for the Developer
- Chaincode Dev. Deployment and Interactions
- Clients ; SDK Development: Fabric-Network
- Clients ; SDK Development: Fabric-Client Interactions
- Logging and Monitoring

Lab: Writing the Chaincode Structure

- Blockchain Basics (Overview)
- Hyperledger Fabric Development Environment
- Knowing the Difference: Composer
- Chaincode Use Cases
- Chaincode Basics
- Golang Shim Development
- Databases for the Developer
- Chaincode Dev. Deployment and Interactions
- Clients ; SDK Development: Fabric-Network
- Clients ; SDK Development: Fabric-Client Interactions
- Logging and Monitoring

Lab: Creating Rich Queries

- Blockchain Basics (Overview)
- Hyperledger Fabric Development Environment
- Knowing the Difference: Composer
- Chaincode Use Cases
- Chaincode Basics
- Golang Shim Development
- Databases for the Developer
- Chaincode Dev. Deployment and Interactions
- Clients ; SDK Development: Fabric-Network
- Clients ; SDK Development: Fabric-Client Interactions
- Logging and Monitoring

Lab: Packaging ; Deploying the Chaincode

- Blockchain Basics (Overview)
- Hyperledger Fabric Development Environment
- Knowing the Difference: Composer
- Chaincode Use Cases
- Chaincode Basics
- Golang Shim Development
- Databases for the Developer
- Chaincode Dev. Deployment and Interactions
- Clients ; SDK Development: Fabric-Network
- Clients ; SDK Development: Fabric-Client Interactions
- Logging and Monitoring

Lab: SDK Development Pt. 1 Writing User Persistence Info

Lab: SDK Development Pt. 2 Transacting and Querying

- Blockchain Basics (Overview)
- Hyperledger Fabric Development Environment
- Knowing the Difference: Composer
- Chaincode Use Cases
- Chaincode Basics
- Golang Shim Development
- Databases for the Developer
- Chaincode Dev. Deployment and Interactions
- Clients ; SDK Development: Fabric-Network
- Clients ; SDK Development: Fabric-Client Interactions
- Logging and Monitoring

## Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

[training@globalknowledge.dk](mailto:training@globalknowledge.dk)

[www.globalknowledge.com/da-dk/](http://www.globalknowledge.com/da-dk/)

Global Knowledge, Stamholmen 110, 2650 Hvidovre