

CERTIFIED HYPER-LEDGER FABRIC DEVELOPER (CFD) CERTIFICATION PROGRAM

This is a hands-on program that will guide the candidates through the concepts of Hyperledger Fabric, while helping them master the back-end programming of this permission Blockchain.

By completing the program, participants will be able to build and deploy Hyperledger single and multi-networks; and query the network. Participants will learn how to write chaincodes (smart contracts) and deploy them to a private cloud instance. They will explore the theory behind public vs. private blockchains and the tokenization of a private Blockchain. They will also understand the dynamics between peer nodes; how permission is granted by opening communication channels between network participants.

This program consists of three days intensive training course and one week of group work on a capstone project (Real-Life use cases). You will receive a certificate upon completion of the course.

PROGRAM DETAILS

Program Length

**3 days Intensive Training + 1 Week
Capstone Project**

Date and Time

**Intensive Training : March 23rd-
25th**

9:00 a.m. - 5:00 p.m.

Location

**Bergeron Centre for Engineering
Excellence, York University**

**Online Certification Exam/
Capstone Project Submission
Due Date**

April 1st

Register Today at:

www.theblockchainhub.com/academy

Course Agenda

Module1-Intensive Training (3 days)

DAY 1: INTRODUCTION TO HYPER LEDGER FABRIC DEVELOPMENT

- Intro to Blockchains & Hidden Opportunities in the industry
- Intro to Hyperledger Permission Blockchains
- Hyperledger Fabric Architecture & Components
- Online Playground & Basic Networks
- Installing Composer

By the end of the day, participants will have a deep rooted knowledge of the Hyperledger Fabric architecture and components, capabilities, applicable consensus mechanisms, Chaincodes, Channels & Privacy protocols. They will practice basic networks using IBM online playground to kickstart their understanding of the IBM platform. They will then prep their environment for more advanced networks by installing Composer.

DAY 2: FROM IDEATION TO COMPLETE FABRIC NETWORK

- Hands on installation of Hyperledger Fabric Networks; writing chaincodes
- Understand, Develop and Deploy Single and Multi-Organizational Networks, MSP, Peer nodes, CA, Docker container, Channels, Admin tool & Private Key set-up
- Connect Business network cards to Fabric network
- Run Chaincodes on any network platform
- REST API
- Querying your network
- Cloud capabilities

Building on the day one, participants will dive into the code behind single-organization networks within a test environment. They will learn how to connect and deploy the network to a Fabric network and will set up the premises for a chaincode run on a single org platform. Participants will learn how to then query the network to accomplished specific operational tasks.

By the end of the day, participants will understand the process of developing, testing and deploying semi-advanced Hyperledger Fabric networks .

DAY 3: FABRIC BLOCKCHAIN DEVELOPMENT PRACTICE, BACK-END TO FRONT-END

- Integrate simple network, ChainCode & DApp on Hyperledger Fabric
- Intro to Blockchain UX Design
- Integrate transactions to Application
- See your smart contract work!
- Hands on Mobile App on Hyperledger Fabric
- On-chain vs. Off-chain Blockchain Designs
- Mentor assisted capstone project session

On the third day, participants will practice the knowledge acquired in the past two days by analyzing and mirroring sample networks. They will then learn how to manage business networks; and how to develop web, mobile and native applications using REST Server, REST API, the Yeoman Framework, Skeleton Angular and Fabric SDKs.

Module2-Capstone Project

students will design a Minimum Lovable Product in the form of a clickable prototype or whatever other form factor that makes the most sense in order to illustrate their understanding of what they've learned. It is due one week after finishing the intensive course (Module1).

INSTRUCTORS

REGISTRATION DETAILS

TBD

\$ 1,495 plus HST

Fee per Delegate

Fees include attendance, program materials, lunch and break refreshments. Group discounts are available.

CERTIFICATION

You will receive a certificate upon completion of the course. Participants must attend all program modules and successfully complete the take-home assignment/exam to receive a certificate. Once the certificate is granted, it will be hashed on the Ethereum blockchain and is globally accessible for further verification.

PROGRAM CHANGES

We will make every effort to present the program as advertised, but it may be necessary to change the date, location, instructors or content with little or no notice. In the event of program cancellation, Blockchain Hub's liability is limited to reimbursement of paid fees.

CANCELLATIONS AND SUBSTITUTIONS

Substitution of registrants is permitted at any time. If you are unable to find a substitute, a full refund is available if a cancellation request is received in writing 7 days prior to the program date. If a cancellation request is made with less than 14 days' notice, a \$75 administration fee will apply. No other refund is available.

Certified Ethereum Developer (CED) Certification program

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