NEO BLOCKCHAIN ENTERPRISE DEVELOPER (CNED) CERTIFICATION PROGRAM

PROGRAM OVERVIEW

This program will guide the participants through the basics of the NEO Blockchain and the principles of the NEO Smart Economy, while mastering the best practices for NEO Blockchain enterprise application development.

By completing the program, participants will be able to create and test their own distributed applications (dApps); while also learning about the best tools and reusable code libraries, frameworks, how-to examples, and best practices for enterprise application development using .NET/C#, C#.NEO, and the NEO Blockchain platform.

PROGRAM DETAILS

Program Length

**3 days
plus capstone project**

Date and Time

TODO-TODO

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

Location

Bergeron Centre for Engineering Excellence, York University

Online Certification Exam Due Date

TODO

Course Schedule

DAY 1: INTRODUCTION TO NEO BLOCKCHAIN DEVELOPMENT

(9:00 am-9:30 pm)	Introduction and logistics
(9:30 am-10:15 pm)	Blockchain basic concepts
(10:15 am-10:30 pm)	Morning break
(10:30 am-11:15 pm)	What is NEO?
(11:15 am-12:00 pm)	NEO development platform
(12:00 am-1:00 pm)	Hello World dApp lab
(1:00 pm-1:30 pm)	Lunch Break
(1:30 pm-2:15 pm)	The C#.NEO language
(2:15 pm-3:15 pm)	NEO Storage dApp lab
(3:15 pm-3:30 pm)	Afternoon break
(3:30 pm-4:15 pm)	Introduction to Entities
(4:15 pm-5:00 pm)	Using other programming languages

From cryptography to distributed/decentralized networks, participants will learn the basic concepts underlying the NEO Blockchain. You will understand the basic evolution of 3 generations of blockchains from Bitcoin to Ethereum to NEO. The main focus on how the NEO Blockchain works programmatically. We will be exploring NEO's background, the NEO Smart Economy, its dual-cryptocurrency model as well as complete 2 hands-on development labs.

DAY 2: NEO BLOCKCHAIN ENTERPRISE APPLICATION DEVELOPMENT

(9:00 am-9:30 am)	NEO architecture
(9:30 am-10:15 pm)	Edit-compile-debug lab
(10:15 am-10:30 pm)	Morning break
(10:30 pm-11:15 pm)	NEO Persistable Classes
(11:15 pm-12:00 pm)	Programming with Entities
(12:00 pm-1:00 pm)	Meetup sign-in e-dApp lab
(1:00 pm-1:30 pm)	Lunch Break
(1:30 pm-2:15 pm)	Connecting client side
(2:15 pm-3:15 pm)	Meetup sign-in client lab
(3:15 pm-3:30 pm)	Afternoon break
(3:30 pm-4:15 pm)	NEP5 token standard
(4:15 pm-5:00 pm)	NEP5 token lab

This module will focus on advance programming aspects of the NEO Blockchain. Participants will learn about entity development using C#.NEO and the NEO Blockchain in the context of building a real multi-tier application for managing a sign-in process for Meetup meeting. Following this module, you will be able to develop multi-tier enterprise business applications using the NEO Developer Tool Suite and the NEO Blockchain.

Course Schedule

(9:00 am-9:30 pm)   NEO TestNet/MainNet
(9:30 am-10:15 pm)   NEO Dev Node/Wallet
(10:15 am-10:30 pm) Morning break

(10:30 am-11:15 pm) e-dApp Debugging/Testing
(11:15 am-12:00 pm) NPC Deep Dive
(12:00 am-1:00 pm)   Roll-your-own e-dApp lab
(1:00 pm-1:30 pm)   Lunch Break

(1:30 pm-2:15 pm)   NEO dApp Competitions
(2:15 pm-3:15 pm)   Roll-your-own client lab
(3:15 pm-3:30 pm)   Afternoon break

(3:30 pm-4:15 pm)   Other NEO resources
(4:15 pm-5:00 pm)   Your next steps

This module will focus on the hands-on development of enterprise applications on the NEO Blockchain. Participants will have a chance to get additional classroom help as well learn about other NEO developer resources for their successful completion of the course's capstone project.

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REGISTRATION DETAILS

$ 1,495 plus HST

Fee per Delegate

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

PRE-REQUISITIES

Ideally, participants have some familiarity with the Microsoft .NET Framework, one of the .NET languages (e.g. C#), and Visual Studio 2017 Community Edition.

C++ and Java developers will already be familiar with most of the object-oriented concepts covered in the course.

The amount of coding required for the labs and capstone project is quite low – a few hundred to 1000 lines.

CERTIFICATION

To obtain the course certificate, the participant is required to pass the final exam and to submit the course capstone project to our blockchain-based assessment and certification system by TODO. Once the certificate is granted, it will be hashed on the NEO 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 14 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.

Register Today at: www.theblockchainhub.com/academy