Blockchain Technical Programme

This course is designed for anyone who is interested in Blockchain technology or would like to develop career in the Blockchain sector.

Objective:
- ❑ **This is a two-day course that will explore the details of Blockchain technology and its application, implementation and security concerns.**
- ❑ **It provides hands-on training for participants to design, build, deploy, and test a decentralised Blockchain application built on the R3 Corda platform.**

Course Fee
HK$18,000**

Date & Time:
18-19 Dec 2018 (2 days)
9:30am – 5:00 pm

Language:
Chinese with English Terms

Registration/Enquiry:
(852) 2788 5800 or itsec_enq@hkpc.org

**This course has been submitted to the Vocational Training Council (VTC) - Reindustrialization and Technology Training Programme (RTTP) for funding support. Once approved, eligible participants may receive a maximum grant of HK$12,000 (subject to VTC final audit letter).

Version updated: 31.10.2018

Instructors:

Dr. Lawrence Ma taught mathematics at the National University of Singapore for several years before moving into quantitative finance and risk management with think tanks and consulting firms such as the American Bourses Corporation and Bain & Company. He is founder and CEO of eMALI.IO Limited, and is currently serving on the Expert Committee Society of CUFE Beston Blockchain Research Center (中央財經大學大信區塊鏈研究中心) in Beijing. Dr. Ma studied mathematics at Yale University (B.A.), Stanford University (M.S.), and Cornell University (Ph.D.) in the United States.

Gabriel Chan is a sought-after Blockchain technical consultant who works with local and international teams on enterprise Blockchain and DLT applications for a variety of industries. He has written numerous papers and contributed to books about Blockchain design patterns, particularly in crypto economics, governance, and self-sovereign identity. He has frequently been interviewed by television and print media from Hong Kong and the Mainland of China regarding legal and regulatory compliance with respect to Blockchain.

Outline of the course	Description
Cryptography	• **An introduction to the fundamentals of computer cryptography and network security as pertains to Blockchain.**
Consensus	• **Explore the fundamentals of consensus in a decentralized network. In-depth analysis of Blockchain consensus models.**
Scalability	• **Understand the problems with scalability in decentralized networks. In-depth analysis of alternate proposals by Ethereum and rivals.**
Advanced Cryptography	• **Examine the latest application of cryptographic primitives to address issues of anonymous and privacy for Blockchain.**
Advanced Consensus	• **Discuss the cutting edge research, development, and other radical proposals in consensus mechanisms.**
Smart Contracts	• **Provide a comprehensive overview of smart contracts. Explore how they are implemented in various platforms.**
Corda (Lab)	• **This is an intensive applied workshop where students will develop a comprehensive understanding of Blockchain engineering by designing, building, deploying, and test a decentralized application built on the R3 Corda platform.**