hkpc Academy 生產力學院

Web3.0 Series: Blockchain Technologies and Applications

CONNECTION TECHNOLOGY 裝備未來 FUTURESKILLS

Course Fee: HK$4,500 (May apply up to HK$3,000 subsidy)
*Maximum saving, with the final grant subjects to approval.

NITTP Approved
HKPC/105/2023(RT)

Metaverse is a virtual hub constructed by many technologies, and blockchain plays an important role in it. In this 1-day workshop, the trainer shall cover concepts, latest development, up-to-date market trends and business use cases of blockchain, as well as referencing to the latest blockchain topics like NFT (Non-fungible token), DApp (Decentralized Application), DeFi (Decentralized Finance) and etc. To enhance participants' experiential learning experience, the trainer will make use of the proprietary designed mobile application and interactive activities during dedicated sessions. From the interactive activities, the participants could grasp the blockchain concepts and applications more effectively.

The course welcomes professionals from different functions who wish to gain basic understanding of blockchain technologies and associated applications such as NFT, GameFi, DeFi, Metaverse in a fun, layman and engaging way.

Certificate of Attendance will be issued to participants who have attended all lessons.

Programme code	10012731-02
Date & Time	1 February 2024 09:30-17:30
Venue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong
Medium	Cantonese
Course fee	$4,500 (May apply up to HK$3,000 subsidy; Group discount will be offered to enrolment of 2 people or above, please contact us for details)
Duration	6.5 hours

Programme Highlights

- Highlighting the issues of current Internet model: lack of peer-to-peer trust and the issue of centralization
- Explaining in easy-to-understand layman terms on how Blockchain addresses trust
- issues in current Internet model by using Distributed Ledger Architecture
- Understanding the fundamental concepts of blockchain by participating a fun board-game.
    - Definition of Blockchain/Distributed Ledger Technology (DLT).
    - Explanation on the benefits of decentralization architecture that enables peer to peer transactions.
    - Walkthrough of Operation in Distributed Ledger among Networks nodes.
    - Explanation on Consensus Protocols that facilitate trust in decentralized architecture.
    - Illustration of the Concept of asymmetric key encryption, Public Key & Private Key.
    - Highlight the benefits Smart Contract that can eliminate 3rd parties.
    - Explanation of the benefits of Distributed APP (DAPP) on blockchain network.
    - Illustration of the latest development of NFT (Non-Fungible Token) and how it works.
- Some application examples and future directions on Blockchain in different industries/functions such as DEFI, GAMEFI, Health care, Real estate, logistics, HR, etc.
- Overview of Design Thinking:
- Interactive online Quiz to bust the common myths of innovation
- Mini lecture: The importance of Design Thinking

Course Outline

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Introduction

- Polling to bust the common myths and misunderstanding of blockchain

The Essence of Blockchain Technology

- Why blockchain, and what value will it bring?

Blockchain Experiential Activities – Proprietary Designed Mobile App Game

Stage 1.1 Existing non-blockchain trading

- Using board game to understand the fundamental concepts of blockchain
  - Benefits of Decentralization
  - Distributed Ledger System overview
  - Distributed Ledger in Networks nodes
- Discussion: Issues in centralised system – centralised leads to unequal power and profit

Stage 1.2 Existing non-blockchain trading (with hacker)

- Discussion: Issues in centralized system – easy hacking and mutable records

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Blockchain Experiential Activities – Proprietary Designed Mobile Game

Stage 2.1 Blockchain trading

- Distributed consensus (Proof of Work, Proof of Stake, Mining)
- Discussion: Power of decentralized system – benefits of decentralisation with more even power and profit among all stakeholders

Stage 2.2 Blockchain trading (with hacker)

- Issues in decentralized system Security
  - Security issues in centralized and decentralized system

Stage 2.3 Blockchain trading (mining operation)

Stage 3 Demos

- Authentication and Trust: Private/Public Keys
- Smart Contracts
- The power of DAPP (distributed app) and Ethereum
- DeFI – finance with Bank
- Gamefi – Play to earn
- NFT – NFT functions, marketplace, technologies behind NFT
- Application Case Studies

Design Thinking Overview

- The importance of Design Thinking, especially in ICT
- Overview of Double Diamond Model
- The integration of Convergent (Left Brain) and Divergent Thinking (Right Brain)

Dr. Andrew Ma

Andrew is a passionate educator who has more than a decade of experience in corporate trainings and coaching in blockchain, digital transformation, leadership & management, design thinking with satisfactory feedback ratings. With the aim to promote blockchain application, Andrew and his team has designed a proprietary blockchain experiential learning mobile application and activities to put abstract and difficult concepts into funny way. He was invited as keynote speaker by many MNC and public organisations/events, such as TEDx; Citic Pacific, Colgate, Chubb insurance, Urban Renewal Authority, HK Police Force, etc. Andrew's technology trainings and sharing have inspired many, which is proven by the clients' feedback. He is known for putting difficult technology concepts into laymen terms, making them easy to digest for non-techies.

He is also recognised for outstanding academic achievements, including a Ph.D from School of Business and Leadership, with a research focused on cross-cultural & cross generational leadership, MBA; M.Sc. (Optical Communication); B.Sc. (Electrical Engineering); and BA (Economics). He has more than 15 years of global management experience in hi-tech industries in various functions like marketing, business operation, consultancy and management in Asian and North American markets.

Enrolment method

- Click here or scan the QR code to complete the enrolment and payment online
- **NITTP Training Grant Application:**
  - Companies should submit their NITTP training grant application for their employee(s) via https://nittp.vtc.edu.hk/rttp/login at least **five weeks before** course commencement. Alternatively, application form could be submitted to the Secretariat in person, by post, by fax or by email to nittp@vtc.edu.hk together with supporting documents.

Inquiry
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