Organiser

hkpc Academy 生產力學院

Supporting Organisations (In arbitrary order)

HKCS HONG KONG COMPUTER SOCIETY 香港電腦學會

WTIA 香港無線科技商會

Hong Kong Software Industry Association 香港軟件行業協會

IoT Certification Programme:
Start from Beginner to Advanced Level in 5 Days

CONNECTION TECHNOLOGY 裝備未來
FUTURESKILLS

Course Fee: HK$12,000 (May apply up to HK$8,000 subsidy)
*Maximum saving, with the final grant subjects to approval.

NITTP Applying

What is Internet of Things (IoT) and why does it matter?

As the world becomes increasingly digital, everything from coffee machines to cars can quickly become part of IoT network. Gartner forecasted that 25 billion connected things will be in use by 2021.

The IoT will continue to deliver new opportunities for digital business innovation for the next decade.

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 two weeks before course commencement. Alternatively, application form could be submitted by email to nittp@vtc.edu.hk along with supporting documents.

Programme code	10014xxx
Duration and time	5 days 9:30 - 17:30
Venue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong
Language	Cantonese, supplemented with English terminology
Course fee	HK$12,000 (May apply up to HK$8,000* subsidy)
Prerequisite	It is recommended that participants possess basic knowledge on systems and programming
Bring Your Own Device (BYOD)	Windows 7/10 / Mac OS 10.x or above with minimum 2 GB RAM and 20 GB hard disk

Who Should Attend ?

- ✓ IT manager
- ✓ System analysts
- ✓ Software architects
- ✓ Software developers
- ✓ IoT hardware developers
- ✓ Business analysts
- ✓ Data analysts
- ✓ Data scientists

Course Description

This program walkthroughs basics, concepts and applications of IoT from ground up. It covers its core technologies, IoT infrastructure, platform design and building, basic programming, data analysis and machine learning in a progressive pace.

It focuses on many hands-on practical exercises, including DIY sensor project, programming the weather station, and machine learning programs for IoT data. You will understand why we need a proper IoT platform and leverage it to manage multitude of devices, protocols and applications. Common IoT protocols such as HTTP, MQTT will be reviewed and compared.

We will take a close look of how IoT empowers many industry applications through case studies in smart home, smart society, healthcare and telecommunications fields. Last but not least, the course discusses the controversial topic of Internet security and how to safeguard your IoT platform against cyber-attacks and abuse.

Course Structure

Introduction to IoT

To elaborate the core technologies, including NFC, ZigBee, Bluetooth, behind IoT and the applications in different scenarios derived from these technologies

Sensor DIY workshop

To build a IoT sensor using the popular ESP8266 component - through controlling input and output and connect to the Internet to submit sensed data

IoT Platforms

To elaborate the details of IoT platform, its emergence, components, key function of device management and two common protocols, HTTP and MQTT that work between IoT sensors and platforms

Machine learning on IoT data

To elaborate the intelligence that can be gathered by the sensing data collected through IoT sensors and platforms – with a focus on different applicable and useful machine learning models – to build smarter applications

This course is an approved New Industrialisation and Technology Training Programme" (NITTP), which offers up to 2/3 course fee reimbursement upon successful applications. For details: https://nittp.vtc.edu.hk/.

Trainer Information

Simon MOK is an IT professional trainer for over 10 years covering IoT, data analytics, AI and machine learning and programing. He has rich experience in leading development team to deliver software solutions for clients. He is a M.Phil from the University of Hong Kong and MSc in Computer Science from the Chinese University of Hong Kong.

Enrolment Methods

1. Scan the QR code to complete the enrolment and payment online OR
2. Mail the crossed cheque with payee name "Hong Kong Productivity Council" (in HK dollar) to HKPC Academy, Hong Kong Productivity Council, 3/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (attention to Mr Desmond CHAN). Please indicate the course name and course code on the envelope.

Enrolment Link

Inquiry
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