



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


 CONNECTION TECHNOLOGY 裝備未來
FUTURE SKILLS

Course Fee: HK\$12,000 (May apply up to HK\$8,000 subsidy)

*Maximum saving, with the final grant subjects to approval.



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.

Prerequisites: It is recommended that participants possess basic knowledge on systems and programming.

Programme code	10013219
Duration and time	5 days 9:30 - 17:30
Venue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong
Medium	Cantonese, supplemented with English terminology
Course fee	HK\$12,000 (May apply up to HK\$8,000* subsidy)

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.

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

Award of Certificate of Accomplishment

Certificate of Accomplishment issued by the Hong Kong Productivity Council will be awarded to participants who are in full attendance.

Trainer Information

Simon MOK is an IT professional trainer for over 10 years covering IoT, data analytics, AI and machine learning and programming. 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.

Bring Your Own Device (BYOD): Windows 7/10 / Mac OS 10.x or above with minimum 2 GB RAM and 20 GB hard disk

RTTP Training Grant Application

Companies should submit their RTTP training grant application for their employee(s) via <https://rttp.vtc.edu.hk/rttp/login> at least two weeks before course commencement. Alternatively, [application form](#) could be submitted by email to rttp@vtc.edu.hk along with supporting documents.

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](#)