

# Python for Big Data Analytics Certificate Programme

CONNECTION TECHNOLOGY 裝備未來  
**FUTURE SKILLS**

Course Fee: HK\$6,000 (May apply up to HK\$4,000 subsidy)

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



This course is intended for participants who aspire to stretch his analytics competencies in the organization using open-source technology to apply Python programming **best practices** to perform moderate sophisticated analytics processes, data prepping and modelling tasks for simple predictive analytics using machine learning with Python.

#### 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](mailto:rttp@vtc.edu.hk) along with supporting documents.

Programme code	10012950
Duration and time	2 days 9:30am-5pm
Venue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong
Language	Cantonese, supplemented with English terminology
Course fee	HK\$6,000 (May apply up to HK\$4,000* subsidy)
Prerequisite	<ul style="list-style-type: none"> <li>• Computer operation &amp; basic internet skill</li> <li>• Any computer language skill</li> <li>• Basic Excel skill</li> </ul>

## Course Description

This 2 days course will use Python as the programming language across all analytics processes. Upon completion of this course, you will be able to use Python in data prepping tasks and prepare models for predictive analytics. You will learn how to use Pandas and various Python libraries, everything from importing spreadsheet data to processing sets for time-series analysis, machine learning and even AI.

## Who Should Attend?

It is highly relevant to participants who involve in the requirements input, design, development, delivery and ultimate use of the digital initiatives including data consumer, digital initiatives decision maker, business analyst, and operational line managers.

This course is an approved Reindustrialisation and Technology Training Programme (RTTP), which offers up to 2/3 course fee reimbursement upon successful applications. For details: <https://rttp.vtc.edu.hk>.

## Course Outline

### Content (highlights)

#### Python for Data Analytics

- ❖ Python data structure and programming
- ❖ Lambda and Python libraries
- ❖ Data profiling, statistical computation, data cleansing & munging with Pandas
- ❖ Perform interactive data analytics with Python
- ❖ Case studies: Finance, Logistics, Airline and Utilities etc.

#### Machine Learning Essentials

- ❖ Machine Learning (ML) and Artificial Intelligence (AI)
- ❖ Machine Learning best practice – CRISP-DM
- ❖ Popular Machine Learning algorithms and models

## Award of Certificate of Accomplishment

Participant with full attendance of class will be awarded a Certificate of Accomplishment issued by the Hong Kong Productivity Council.

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

## Trainer Information

**Patrick TSOI**, he is a trainer with over 20 years hands-on data science, Big Data and programming experiences. He is a Doctor of Education candidate from the Hong Kong Baptist University, Master in IT Education graduate from the University of Hong Kong and B.Eng in System Engineering and Engineering Management 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](#)

Supporting Organisations (In arbitrary order)

