

## Python "Kungfu" for Cyber Security Testing, Threat Intelligence and Automation

CONNECTION TECHNOLOGY 裝備未來  
**FUTURE SKILLS**

Course Fee: HK\$6,600 (May apply up to HK\$4,400 subsidy)

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



Python is an essential programming language for cyber security professionals to achieve various security check up tasks and assessments. The language is flexible and powerful, with available libraries for network programming, data management and even network scanning.

Open source tools and frameworks developed in Python are widely used by many professionals.

In this 2-day course, cyber security professionals will understand the basics of Python programming such that they can develop their own tools or extend one's module, integrate with the preferred APIs and export their favorite results for report or research purpose.

Programme code	10012404-01
Date and time	14 – 15 June 2022 09:30 – 17:00
Venue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
Medium	Cantonese with English terminology
Fee	<p><b>Early Bird Price (deadline on 13 May 2022):</b></p> <ul style="list-style-type: none"> <li>- Staff of Organiser or Member of Supporting Organisation: <b>HK\$6,400</b> per person</li> <li>- Non-member: <b>HK\$6,500</b> per person</li> </ul> <p><b>Regular Price:</b></p> <ul style="list-style-type: none"> <li>- Staff of Organiser or Member of Supporting Organisation: <b>HK\$6,500</b> per person</li> <li>- Non-member: <b>HK\$6,600</b> per person</li> </ul>
Remarks	The application deadline is <b>7 June 2022</b> . Late submission will NOT be considered.

### Course Objectives

Enable cyber security professionals to start explore python programming such that they can develop or customise security tools and applications found in the open source community, carry out more substantial testing, fuzzing and threat intelligence collection.

## Course Outline

### Day 1

- ◆ Python Fundamentals
  - Primitive Type
  - Import Library
  - If, Then, Else
  - Loop
  - Print
  - Open File
  - Run and debug
  - Installation
  - Json / CSV / Pandas / NumPy
  - Date Time
  - Export to File
  - Function Class
  - Exception
  - Network, Request
  - Regular Expression

### Day 2

- ◆ Network Programming (Web request)
- ◆ SQL Injection and Fuzzing Parameters
- ◆ System Programming (Get Windows Process)
- ◆ Export Scanned Result to JSON
- ◆ Integrate and Use of Virus Total or any.run API
- ◆ Testing Vulnerability, System Process, etc.
- ◆ Encryption
- ◆ Security Open Source Python Tools (Usage and customisation, add features)
  - W3AF
  - DNS Tools
  - More tools can be covered
    - Phishing website detection
    - Scan ports, services, etc.

## Target Audience

- ✓ IT Security Auditor
- ✓ Application Developer
- ✓ IT Security Consultant
- ✓ Penetration Tester
- ✓ IT Security Officer

## Certificate of Training

Participants who have attained 75% or more attendance will be awarded Attendance Certificate.

### 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.

## Trainer

### Mr Anthony LAI

*VX Research Limited*

Anthony LAI is the holder of SANS GREM (Gold Paper) since 2010 (Level 3 in Incident Response Management) and SANS GXPN (Level 3 of Penetration Test). He has over 15 years of experience in information security and quality assurance, including penetration test, exploitation research, malware analysis, threat analysis, reverse engineering, and incident response and management.

## Assistant Trainers

### Mr Johnny WONG

*Developer and Researcher, VXCON*

Johnny WONG has started his development life for at least 6 years. He has expertise in Python and .NET programming, and is working with Anthony on various voluntary security research projects and vulnerability research.

### Mr Austin LAU

*Developer and Researcher, VXCON*

Austin LAU has started his development life for at least 6 years. He has expertise in Python and .NET programming, and is working with Anthony on various voluntary security research projects and vulnerability research.

## Enrolment Methods

1. Scan the QR code to complete the enrolment and payment online.
2. Mail the crossed cheque with payee name "Hong Kong Productivity Council" (in HK dollar) and the application form should be mailed to Hong Kong Productivity Council, 2/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (attention to Ms Tracy CHOY). Please indicate the course name and course code on the envelope.

(Only receipt printed with receipt printers at HKPC is valid. Receipt of cheque payment is subject to bank clearance.)



<https://www.hkpcacademy.org/en/programmeDetail.jspx/10012404-01>

## Supporting Organisations (in arbitrary order)

