



PYTHON

Certified Entry-Level Python Programmer Certification (PCEP)

Course Fee: HK\$7,800 (May apply up to HK\$5,200 subsidy)

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



Start programming in Python! Taking this course gives participants the opportunity to dive into computer programming.

It is an interim step to the Certified Associate in Python Programming (PCAP) certification and the starting point to launch a career in software development, Python programming, and related technologies.

Becoming PCEP certified ensures that the individual is acquainted with the most essential skills on Python 3 to enable him/her to start his/her own studies for the intermediate level and to continue further professional development.

Programme code	10011219-02
Date and time	25, 26, 27 Aug & 1, 2, 3 Sep 2021 Every Wed, Thu, Fri (19:00-22:00, total 18 training hours)
Venue	Classroom 119, 1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
Medium	Cantonese, supplemented with English terminology
Course fee	HK\$7,800 (May apply up to \$5,200* subsidy)

Course Description

Certified Entry-Level Python Programmer certification is a professional credential that measures participants ability to accomplish coding tasks related to the essentials of programming in the Python language.

Participants should demonstrate sufficient knowledge of the universal concepts of computer programming, the syntax and semantics of the Python language as well as the skills in resolving typical implementation challenges with the help of the Python Standard Library.

It also shows that the participant is familiar with universal computer programming concepts like data types, containers, functions, conditions, loops, as well as Python programming language syntax, semantics, and the runtime environment.

Course Objective

The main goal of the course is to guide participants from a state of complete programming illiteracy to a level of programming knowledge which allows participants to design, write, debug, and run programs encoded in the Python language, and to understand the basic concepts of software development technology.

Course Outline

Introduction to Python and computer programming

Module 1

- Fundamentals of computer programming;
- Setting up your programming environment;
- Compilation vs. interpretation;
- Introduction to Python

Module 2

- Data types and the basic methods of formatting,
- Variables,
- Converting basic input-output operations,
- Basic operators and variables

Module 3

- Boolean values, if-elif-else instructions,
- The while and for loops, Conditional execution,
- Flow control, Loops, lists, list processing and arrays,
- Logical and bitwise operations

Module 4

- Defining and using functions,
- Different ways of passing arguments,
- Name scopes, tuples and dictionaries;
- Data processing

Bring Your Own Device (BYOD):
Windows 7/10 / Mac OS 10.x with internet
connection and Python 3.7/3.8/3.9 installed

Course Highlights

The courses' added value is to create and develop an ability to analyze common problems in an algorithmic sense, and to see them as an input for computer processing. Moreover, some basic network programming techniques are presented, opening the path to the world of Python programming.

- ✓ Get ready for PCEP certified examination
- ✓ Exam sample question practices
- ✓ Registration for the PCEP exam

Certified Entry-Level Python Programmer Certification (PCEP)



PCEP - Certified Entry-Level Python Programmer is offered by OpenEDG Python Institute, which is independent and vendor-neutral certification in the Python Programming language with an international examination standard.

Trainer

Simon MOK, is an IT professional course trainer with over 10 years, including IoT, data analytics, AI and machine learning and programming. He obtains Certified Associate in Python Programming and has rich experience in leading development team to deliver software solutions for clients. He is an M. Phil. graduate from the University of Hong Kong and MSc in Computer Science from the Chinese University of Hong Kong.

Award of Certificate of Attendance

Full Attendance will be awarded a Certificate of Attendance issued by the Hong Kong Productivity Council.

Who Should Attend?

Anyone who wants to learn Python and modern programming techniques. It is designed specifically for participants with little or no prior knowledge of programming, especially aspiring programmers and anyone interested in learning programming.

Special to HKCS members

- ❖ May enjoy up to HK\$300 Bookstore Coupon. **Promo Code: CS11HK2020**
- ❖ Can apply for the **certification of CPD hours**, this course hours will be counted.
Please visit: <http://www.hkcs.org.hk/continuous-professional-development-cpd/> for your information about CPD Hours.

RTP Training Grant Application

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

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 HKPC Academy, Hong Kong Productivity Council, 3/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (attention to Ms Cherry LAM). Please indicate the course name and course code on the envelope.



[Enrolment Link](#)

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