

Master Class: Advanced Python (Associate Training) (PYTHON03)

ID PYTHON03 Price CHF 2,550.—(excl. VAT) Duration 3 days

Who should attend

Entry-level Python developers who want to deepen their knowledge and skills and Python developers who want to make the step from script to application.

This course is part of the following Certifications

Certified Professional in Python Programming 2 (PCPP2)
Certified Professional in Python Programming 1 (PCPP1)
Certified Associate in Python Programming (PCAP)

Prerequisites

Previous course [Entry into Programming with Python \(PYTHON01\)](#) or [Python for Software Developers \(PYTHON02\)](#) or equivalent knowledge

Course Objectives

After this course you will be able to use Python in a deeper and more efficient way to develop more complex scripts or whole applications.

Course Content

1. Organizing and Structuring Projects in Python

- Virtual Python environment
- Version management

2. Modularisation

- Global modules
- Local modules
- Packages
- Importlib

3. Iterators

- Comprehension
- Chained lists
- Generators

4. Object-Oriented Programming in Python

- Classes and objects
- Access to attributes
- Inheritance

5. Naming Conventions and Best Practices

6. System Functions

- The modules os, sys, psutil
- Standard input and output
- Working with files

7. Working with Third-Party Packages

- Numpy
- Matplotlib
- Pandas
- Scipy
- etc.

8. Testing and Tuning

- Automated testing
- Logging
- Performance Analysis
- Optimization

9. Simple Web Applications with Python

- Django

10. Outlook Machine Learning with Python

11. Outlook Network Programming with Python

12. Python Hosting

- Program Distribution
- Python in SQL Server
- Python in Power BI

13. Programming Style, Best Practices

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