

# Entry into Programming with Python (PYTHON01)

**ID** PYTHON01 **Price** CHF 2,295.—(excl. VAT) **Duration** 3 days

## Who should attend

IT affine people who are looking for an introduction to programming.

## This course is part of the following Certifications

Certified Associate in Python Programming (PCAP)  
Certified Entry-Level Python Programmer (PCEP)  
Certified Professional in Python Programming 2 (PCPP2)  
Certified Professional in Python Programming 1 (PCPP1)

## Prerequisites

Basic PC knowledge

## Course Objectives

You can independently develop and maintain simple scripts.

## Course Content

### One: What is Python?

### 2. First Steps

- Arithmetic operations
- First program
- Save and execute

### 3. Programming Basics

- Variables and Operators
- Branchings
- Grinding
- Errors and exceptions
- Functions

### 4. Data Types

- Numbers
- Strings
- Lists
- Dictionaries

- Quantities, sets

### 5. Advanced Programming

- Output and formatting
- Errors and exceptions
- Functions
- Own modules
- Command line parameters

### 6. Various Modules

- Date and time
- Regular expressions
- Loading new modules

### 7. Files

- Writing to files
- Reading files

### 8. Internet

- Reading web pages
- Copying web pages
- Send data by GET and POST

### 9. Databases

- Create databases, tables
- import data
- Select data
- alter data
- remove data

### 10. User Interface

- Introduction to the programming of graphical user interfaces

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