Introduction to Programming with Python («PYTHON»)

Python is simple and powerful at the same time: with a concise, easy-to-understand syntax and a standard library with very extensive functionality. This course provides a practical introduction to Python.

Duration: 3 days
Price: 2'250.–
Course documents: Digicomp course materials and accompanying book

Content

1. **What is Python?**
2. **First steps**
   - Arithmetic operations
   - First program
   - Saving and executing
3. **Programming basics**
   - Variables and operators
   - Branching
   - Loops
   - Errors and exceptions
   - Functions
4. **Data types**
   - Numbers
   - Strings
   - Lists
   - Dictionaries
   - Sets
5. **Advanced programming**
   - Output and formatting
   - Errors and exceptions
   - Functions
   - Own modules
   - Command line parameters
6. **Various modules**
   - Date and time
   - Multithreading
   - Regular expressions
   - Loading new modules
7. **Files**
   - Writing to files
   - Reading files
8. **Internet**
   - Reading web pages
   - Copying web pages
   - Sending data via GET and POST
9. **Databases**
   - Creating databases and tables
   - Read in data
   - Select data
   - Change data
   - Delete data

10. User interface
    - Introduction to the programming of graphical user interfaces
11. **Programming with artificial intelligence**

Key Learnings

- Knowing the terms, concepts and syntax of Python
- Creating applications with Python using the Standard Module Library

Target audience

This course is aimed at system administrators who want to create complex batch scripts with Python and software developers who want to use Python for «Rapid Application Development».

Requirements

Knowledge of the basics of computer science and programming is recommended, but not mandatory.

- Basics of Programming («JVP»)

Further courses

- The Machine Learning Pipeline on AWS – Intensive Training («AWSA07»)

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-software-engineering/programming-languages/python/course-introduction-to-programming-with-python