Python - The basics of testing with Python

Course code: PYTHON_TEST

The course participant will be able to use the Python programming language to automate routine actions and will be able to use and engage modern software development practices based on testing. We'll also talk about optimizations, why some modules are more powerful than Python's built-in features, and a lot more.

For whom the course is intended:

- For beginner developers who want to learn Python programming.

Required entry skills

- Basic knowledge of the Python language at the level of the PYTHON_INTRO course

Teaching methods

- Expert interpretation with practical examples, exercises on computers.

Studying materials

- Printed presentations of the discussed material.

Syllabus

Python basics

Test Driven Development (TDD) in Python

- Introduction to TDD
- Development environment settings
- Best practices
- Testing REST and SOAP services
 - API types and REST/SOAP overview
 - Python modules for API testing
 - GET REST API
 - POST REST API
 - PUT REST API
 - DELETE REST API

Mocking and faking in Python

- What is Mocking?
- Mock Python library
- Faking object
- Lazy attributes and methods
- Assertions and Inspection

Pipelines, task scheduling and CI/CD

GOPAS Praha

Kodaňská 1441/46 101 00 Praha 10 Tel.: +420 234 064 900-3 info@gopas.cz **GOPAS Brno** Nové sady 996/25 602 00 Brno Tel.: +420 542 422 111 **info@gopas.cz**

GOPAS Bratislava

Dr. Vladimíra Clementisa 10 Bratislava, 821 02 Tel.: +421 248 282 701-2 info@gopas.sk



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