Advanced Python® for Testers

This course is designed for testers who have been using Python and want to take their experience to the next level.

In this course, you will:

- Learn how to solve key challenges in implementing Python.
- Explore how decorators and generators can help in the development and testing process.
- Examine how you can control Jenkins or GitHub Actions with Python in your continuous integration environment.
- Understand how to interact with your products database in order to retrieve and set up the test data more efficiently and with better control.

This course switches rapidly between theory and quick exercises. The course is adapted around the participants' needs and may opt to focus more or less on some topics.

Who Should Attend

Participants are expected to have some previous knowledge and experience working with Python or be advanced in one or more programming languages. If you have little or no Python experience, we recommend taking our Python for Testers course first.

Course Outline

Taking your core Python to the next level:
Common Python idioms
List comprehensions
Python generators & decorators
Python's magic methods
Concurrency: Python multithreading
String formatting in Python
PyTest: A test automation framework
Object-oriented Python programming

Python integrating with the outside world:
Working with REST APIs
Using Python for test automation
Visualizing your test results
Using Python to send emails
Python and SQL databases
Python and Google Drive & Sheets

Bonus topics
XML & JSON in Python
Regular expressions
Python logging
Virtualenv: Set up your Python environments
Creating and controlling Amazon EC2 instances in the cloud
Controlling your CI environment via Python
Creating your own Python package
Integrating Python with Java and/or C-code

Price: $1545