

Python Training: Essential Python for Testing (PYTHQA, 3 jours)

Description

The course Core Python for Testing (Python Training) teaches you to write Python code in support of automated testing activities. The training begins with Python coding fundamentals including variables, control structures, scope, classes and inheritance. This is followed by a detailed exploration of the Python unit testing framework and a brief introduction to Selenium for automated testing.

Tarifs

- Tarification: \$3,350/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Object Oriented Programing with Python

Review of Basics

Creating a Class

Defining Class Members and Methods

Implementing Inheritance

Using Polymorphism

Using Interfaces

Making use of Libraries

Compiling Modules for Faster Loading

Putting it All Together

Practical Python

Pattern Matching with Regular Expressions

Reading and Writing Files

Interacting with Databases

Multithreaded Programming

Python Network Programming

Python for Automated Testing

Organizing Files

Working with CSV Files and JSON Data

Keeping Time, Scheduling Tasks and Launching Programs

Controlling the Keyboard and Mouse with Automation

Selenium and Web Testing

Installation of Python and Selenium Webdriver Package for Python

Prepare Your First Selenium Webdriver Automation Script Using Python

Creating Selenium Webdriver and Python Scripts for Common Browsers

Navigation Methods in Python

Switching between Windows

How to Locate Elements Using Selenium Python

How to Use Selenium WebDriver Waits in Python

The Python Unittest Framework

Five Components of Python Unittest Framework

Prepare a Test Case Class to Automate a Scenario

Using setUp() Method to Manage Test Pre-requisites

Writing Selenium-Python Test Scripts Using unittest.

Define Cleanup Strategy to Free Resources Post Test Execution

Execute the Test Case from the Command Line

Refactoring setUp() and tearDown() Methods for Optimization

Assertions in Python unittest Framework

Create Selenium-Python Test Suite Using unittest

Generate HTML Test Suite Execution Report