Test Automation with Python (TTPS4832)

Category: Software Development & Programming | **Vendor:** Trivera Tech

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The pytest framework is simple to use but powerful enough to cover complex testing integration scenarios. PyTest is considered by many to be the true Pythonic approach to testing in Python. Geared for QA, Test team members and others who want to use the Python testing framework PyTest to implement code testing strategies, Test Automation with Python is a hands-on, two day Python testing course that provides students with the skills required to get started with PyTest right away. Participnats will learn how to get the most out of it in their daily workflow, exploring powerful mechanisms and plugins to facilitate many common testing tasks. Students will also learn how to use pytest in existing unittest based test suites and will learn some tricks to make the jump to a pytest-style test suite quickly and easily.

About This Course

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Who Should Attend

This in an introductory-level course geared for QA, Test team members and others who want to use the Python testing framework PyTest to implement code testing strategies. Attendees should have prior basic Python scripting experience. Students should have some familiarity with tools to be used in this course: PyCharm, Jupyter Notebook and basic GIT.

Prerequisites & Entry Requirements

General Prerequisites:

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PyTest to implement code testing strategies. Attendees should have prior basic Python scripting experience. Students should have
some familiarity with tools to be used in this course: PyCharm, Jupyter Notebook and basic GIT.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Working within in a hands-on learning environment students will learn to:

Become proficient with pytest from day one by solving real-world testing problems

Use pytest to write tests more efficiently

Scale from simple to complex and functional testing

Write and run simple and complex tests

Organize tests in fles and directories

Find out how to be more productive on the command line

Markers and how to skip, xfail and parametrize tests

Explore fxtures and techniques to use them effectively, such as tmpdir, pytestconfg, and monkeypatch

Convert unittest suites to pytest using little-known techniques

Detailed Course Outline

Python Refresher

- Python Overview
- Python Basics
- Python Lab

Introducing PyTest

- Why Spend time writing test
- UnitTest Module
- Why PyTest
- Introductory Lab

Writing and Running Test

- Installing PyTest
- Writing and Running Tests
- Organizing files and packages
- Command Line options
- Configure pytest.ini
- Install and Config Lab

Markers and Parameters

- Mark Basics
- Built-in marks
- Parameterization
- Markers and Parameters Lab

Fixtures

- Introduction to Fixtures
- Sharing fixtures with conftest.py files
- Scopes
- Autouse
- Parameterizing fixtures
- Using marks from fixtures
- Built-in fixtures
- Best Practices
- Fixtures Lab
- Fixtures Lab 2

Plugins

- Finding and installing plugins
- Overview of plugins
- Plugin Lab

From UnitTest to PyTest

- Use PyTest as a Test Runner
- Convert asserts with unitest2pytest
- Handling setup/teardown
- Managing test hierarchies
- Refactoring test utilities
- Migration strategies

, Python Quick Refresh

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Refactoring test utilities

Migration strategies

Additional Course Details

Nexus Humans Test Automation with Python (TTPS4832) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Test Automation with Python (TTPS4832) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Test Automation with Python (TTPS4832)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Test Automation with Python (TTPS4832) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Test Automation with Python (TTPS4832) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Test Automation with Python (TTPS4832)?

Yes, we provide corporate training, dedicated training, and closed classes for Test Automation with Python (TTPS4832). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Python Testing; Test Automation

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Q: Why choose Nexus Human for Test Automation with Python (TTPS4832)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Test Automation with Python (TTPS4832) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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