PYTHON TRAINING

Certified Associate Tester Python Pcat Course

Develop essential Python testing skills for the PCAT certification. Learn to write comprehensive tests and ensure code quality.

DURATION
2 hours

LEVEL
Intermediate

FORMAT
Instructor-Led

- Globally Recognized Certification
- Expert-Led Hands-On Training
- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

The Certified Associate Tester Python PCAT Course offers a highly focused and intensive dive into the essential principles and practices of software testing using the Python programming language. Designed for aspiring and current IT professionals, this intermediate-level program from Computer Pride equips you with the foundational knowledge and practical skills required to excel in Python-centric testing environments. You will learn to write effective unit tests, understand test automation concepts, and apply best practices for ensuring code quality and reliability.

This course zeroes in on core testing methodologies relevant to Python applications, preparing you to identify defects early, improve software stability, and contribute to robust development cycles. By mastering Python-based testing, you significantly enhance your value to any development team, ensuring higher quality software releases and streamlined debugging processes. The practical, hands-on approach ensures you gain immediate, applicable skills that are critical in today's fast-paced tech landscape. Upon completion, you will be well-prepared to validate your expertise as a Certified Associate Tester in Python.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Introduction to Python for Testers

- Python fundamentals refresher: data types, control flow, functions
- Setting up a Python testing environment (pip, virtual environments)
- Understanding common Python libraries for testing workflows
- Introduction to code quality and testing paradigms

02 Module 2: Core Concepts of Software Testing

- Types of software testing (unit, integration, functional)
- Test case design principles and strategies
- Understanding testability and defect reporting
- Introduction to test automation benefits and challenges

03 Module 3: Unit Testing with Python's unittest Framework

- Structure of a unittest test case
- Writing assertions and test fixtures
- Running and organizing tests with unittest
- Skipping tests and expected failures

04 Module 4: Introduction to Pytest for Advanced Testing

- Pytest installation and basic usage
- Writing simple tests with pytest
- Pytest fixtures for setup and teardown
- Parameterized testing with pytest

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> **Junior Python QA Engineer focusing on automated testing frameworks**

> **Entry-level Software Test Automation Specialist utilizing Python scripts**

> **Associate Software Quality Assurance Analyst in Python-driven development teams**

FREQUENTLY ASKED QUESTIONS

Q: What specific Python programming skills are essential as a prerequisite for this 2-hour Certified Associate Tester course?

To get the most out of this intensive 2-hour course, participants should have a foundational understanding of Python programming, including familiarity with variables, data types (lists, dictionaries), conditional statements, loops, and defining/calling functions. While not a beginner's Python course, a basic grasp of core syntax will enable you to immediately apply testing concepts.

Q: How will this Certified Associate Tester Python PCAT course enhance my ability to contribute to test automation in a professional setting?

This course is designed to equip you with the practical skills to write, execute, and interpret automated tests using Python's leading frameworks like unittest and an introduction to pytest. You will learn how to structure test cases, use assertions effectively, and understand the role of test fixtures, enabling you to actively participate in building and maintaining automated test suites within a development team, significantly speeding up testing cycles and improving software quality.

Q: Given the 'Associate Tester' level, what kind of real-world testing scenarios will I be prepared to handle upon completing this course?

Upon completion of this course, you will be prepared to handle basic to intermediate-level testing scenarios involving Python applications. This includes writing unit tests for individual functions or components, performing simple integration tests, and contributing to the maintenance of existing test automation frameworks. You'll gain the confidence to identify potential bugs, report them effectively, and understand how your testing efforts contribute to a robust software development lifecycle.

ABOUT COMPUTER PRIDE

computerpride

East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+	10,000+	50+
Years of Excellence	Professionals Trained	Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

Location
1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email
info@computer-pride.co.ke

Phone
+254 705 900 900

www.computer-pride.co.ke