



PYTHON TRAINING

Automation Testing Selenium Python Course

Master automation testing with Selenium and Python. Build robust test scripts to streamline software quality assurance.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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

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COURSE OVERVIEW

This concise yet powerful "Automation Testing Selenium Python Course" is designed for intermediate learners eager to master the essentials of web automation. In just two focused hours, you will dive into the practical application of Selenium WebDriver with Python, the industry-standard combination for automating browser actions and ensuring web application quality. The course emphasizes hands-on learning, equipping you with the skills to write robust, efficient, and maintainable automated test scripts.

Participants will gain a deep understanding of core automation concepts, learn to effectively interact with various web elements, and implement fundamental synchronization techniques. By the end of this program, you will be proficient in setting up your automation environment, crafting basic to intermediate test cases, and understanding how to apply these skills to significantly improve software testing cycles. This expertise not only streamlines your testing processes by reducing manual effort but also accelerates feedback loops, leading to faster development and deployment.

Beyond technical skills, this course offers significant professional benefits by making you a more valuable asset in any development or quality assurance team. You'll be able to contribute to higher software quality, increase team productivity, and support agile methodologies more effectively. This specialized knowledge is critical for career advancement in the rapidly evolving landscape of software development and quality engineering.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Introduction to Web Automation with Python & Selenium

- Understanding Automation Testing: Benefits and Challenges
- Overview of Selenium WebDriver Architecture
- Setting up Your Automation Environment: Python, pip, Selenium Libraries, and Browser Drivers
- Basic Python Refresher for Test Scripting (Variables, Data Types, Functions)

02 Module 2: Interacting with Web Elements

- Locators in Selenium: ID, Name, ClassName, TagName, LinkText, PartialLinkText
- Advanced Locators: XPath and CSS Selectors
- Performing Actions on Elements: Click, Send Keys, Clear, Submit
- Retrieving Information: Get Text, Get Attribute, Get Tag Name

03 Module 3: Building Robust and Reliable Test Cases

- Synchronization Techniques: Implicit Waits vs. Explicit Waits
- Handling Common Web Elements: Dropdowns, Checkboxes, Radio Buttons, Alerts
- Writing Basic Assertions for Test Validation
- Structuring Your First Automated Test Script

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Automation Test Engineer**
- > **QA Automation Specialist with Python**
- > **Junior Software Development Engineer in Test (SDET)**

FREQUENTLY ASKED QUESTIONS

Q: How will this 2-hour course specifically enhance my ability to automate web application testing, and what practical outcomes can I expect?

This intensive 2-hour course is designed to provide you with a hands-on, foundational understanding of web automation using Selenium and Python. You will practically learn to set up your environment, identify various web elements using different locators, perform common user actions like clicks and text input, and implement waits for reliable script execution. By the end, you'll be able to write, execute, and troubleshoot your own basic to intermediate automated test scripts, significantly boosting your productivity and the efficiency of your testing processes.

Q: What foundational knowledge in Python programming and web technologies is expected before enrolling in this intermediate-level course?

While this is an intermediate-level course, its 2-hour duration means we hit the ground running. You should have a basic understanding of Python syntax, including variables, data types, and functions. Familiarity with HTML and CSS concepts (like tags, attributes, and basic selectors) will also be highly beneficial, as these are fundamental to interacting with web elements. No prior experience with Selenium is required, but a general grasp of software testing concepts will be helpful.

Q: Will the course cover strategies for creating reusable and maintainable test scripts, crucial for larger automation projects?

Given the 2-hour duration, this course focuses on building a strong practical foundation in core Selenium and Python automation. While we will touch upon basic structuring of test scripts and efficient locator strategies that contribute to maintainability, in-depth topics like the Page Object Model (POM) or advanced test framework integration for large-scale reusability are beyond the scope of this particular introductory program. However, the skills you gain will serve as an excellent stepping stone towards understanding and implementing such advanced architectural patterns in your future learning.

ABOUT COMPUTER PRIDE



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+

Years of Excellence

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READY TO ENROL?

Take the next step in your technology career.

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