



PYTHON TRAINING

Python Automation Training Course

Learn to build powerful Python scripts to automate IT workflows, boosting efficiency and problem-solving skills.

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

This intensive Python Automation Training Course is designed for intermediate Python users who are ready to elevate their productivity by automating repetitive and mundane tasks. In just two hours, participants will gain practical, hands-on experience with core Python libraries essential for streamlining workflows, manipulating files, interacting with web services, and processing data. This course moves beyond basic scripting to demonstrate how Python can become your most powerful tool for efficiency.

By focusing on practical application, this course empowers you to transform time-consuming manual processes into swift, automated operations. You will learn to write clean, effective automation scripts that save valuable time, reduce human error, and free up resources for more strategic work. Whether you're looking to enhance your current role, pursue new career opportunities, or simply become more efficient, this training provides a solid foundation in leveraging Python for real-world automation challenges.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Foundations of Python Automation

- Setting up your automation environment
- Understanding common automation scenarios
- Introduction to the 'os' module for system interaction
- Handling command-line arguments and user input

02 Module 2: Automating File System Operations

- Creating, moving, copying, and deleting files and directories
- Searching for files and folders using Python
- Organizing files with 'shutil' module
- Working with path manipulation using 'pathlib'

03 Module 3: Web Data Extraction and Basic Interaction

- Making HTTP requests with the 'requests' library
- Parsing HTML content with 'BeautifulSoup'
- Extracting specific data from websites (web scraping basics)
- Handling basic form submissions

04 Module 4: Automating Data Processing with Spreadsheets

- Reading and writing CSV files
- Introduction to 'openpyxl' for Excel file manipulation
- Automating data entry and report generation in Excel
- Basic data validation and formatting

05 Module 5: Advanced Automation Concepts & Project Application

- Scheduling automation scripts (e.g., cron jobs, Windows Task Scheduler concepts)
- Implementing basic error handling in automation scripts
- Best practices for writing robust and maintainable automation code

- Mini-project: Automating a common business task

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Automation Engineer**
- > **Business Process Automation (BPA) Specialist**
- > **IT Support Analyst with Scripting Expertise**

FREQUENTLY ASKED QUESTIONS

Q: What level of Python proficiency is required before enrolling in this intermediate automation course?

This course assumes participants have a foundational understanding of Python programming concepts, including variables, data types, control flow (if/else, loops), functions, and basic object-oriented principles. While not a beginner's course, the initial module will briefly review key concepts relevant to automation to ensure a smooth transition.

Q: Which specific types of repetitive tasks will I be able to automate after completing this 2-hour training?

Upon completion of this focused training, you will be equipped to automate a variety of common repetitive tasks, including: organizing files and folders, extracting specific data from websites for analysis, generating reports from CSV or Excel data, and performing basic system interactions. The course provides the practical skills to identify automation opportunities and implement efficient Python-based solutions.

Q: How will mastering Python automation skills impact my career prospects in the IT industry?

Acquiring Python automation skills significantly boosts your career prospects by positioning you as a highly efficient and valuable asset. Employers actively seek professionals who can streamline operations, reduce manual effort, and improve accuracy. This course provides a tangible skill set that can lead to roles like Junior Automation Engineer or enhance existing positions in IT Support, Data Analysis, and Business Operations by making you indispensable in optimizing workflows.

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

10,000+

Professionals Trained

50+

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