



PYTHON TRAINING

Python Automation Courses

Automate repetitive tasks with Python. Master scripting, web scraping, and data processing to boost efficiency.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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

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COURSE OVERVIEW

Unlock the power of efficiency and precision with Computer Pride's Intermediate Python Automation Courses. This intensive 2-hour program is meticulously designed for IT professionals, system administrators, and anyone looking to significantly streamline repetitive tasks across various domains. You will delve into core Python libraries and techniques to automate file management, system interactions, basic data processing, and simple web requests, transforming manual efforts into intelligent, self-executing scripts. This course is ideal for those who have a foundational understanding of Python and are ready to apply their skills to practical, real-world automation challenges. By mastering these techniques, you'll be able to create robust, maintainable solutions that drastically reduce manual intervention.

This course empowers you to minimize human error, save valuable time, and scale operations effortlessly. By mastering Python automation, you'll gain a critical skill set highly sought after in today's tech-driven landscape, enabling you to focus on more strategic and complex challenges. Elevate your productivity, enhance your problem-solving capabilities, and position yourself as an invaluable asset in any organization, driving operational excellence and innovation. Graduates will be able to implement immediate improvements in their daily workflows, making them more efficient and impactful within their teams.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Foundations of Python Automation

- Introduction to automation principles and use cases
- Setting up your Python environment for automation
- Basic scripting for repetitive tasks
- Working with command-line arguments (sys module)
- Understanding common automation pitfalls and best practices

02 Module 2: File System and Directory Automation

- Reading and writing files (open(), os.path)
- Managing directories (os module functionalities)
- Copying, moving, and deleting files and folders (shutil module)
- Searching for files and patterns (glob, regular expressions basics)
- Practical exercises: Automated file organization and cleanup

03 Module 3: Automating System Processes and Interactions

- Running external commands and applications (subprocess module)
- Interacting with the operating system (os module for environment variables, user info)
- Basic task scheduling concepts (e.g., cron jobs, Task Scheduler overview)
- Error handling in robust automation scripts (try-except blocks)
- Practical exercises: System monitoring scripts and scheduled tasks

04 Module 4: Practical Web Interaction and Data Automation

- Making basic HTTP requests (requests module basics)
- Parsing simple data formats (CSV, JSON basics for data extraction)
- Automating basic report generation (e.g., writing data to a text or CSV file)

- Introduction to simple web scraping concepts (ethical considerations)
- Practical exercises: Fetching data from public APIs and simple content extraction

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Automation Engineer**
- > **IT Support & Operations Analyst**
- > **Data Workflow Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What foundational Python knowledge should I have before enrolling in this Intermediate Python Automation course?

To get the most out of this course, participants should have a basic understanding of Python syntax, including variables, data types (strings, lists, dictionaries), conditional statements (if/else), loops (for/while), and functions. Familiarity with fundamental programming concepts will allow you to quickly grasp the automation-specific libraries and techniques taught, ensuring you can immediately apply the concepts to practical scenarios.

Q: Will this course teach me how to automate tasks on specific operating systems like Windows or Linux?

Yes, this course focuses on cross-platform Python libraries that enable automation across various operating systems, including Windows, macOS, and Linux. You will learn to write scripts that interact with the file system, execute external commands, and manage processes in a way that is largely OS-agnostic, with specific examples provided for common automation scenarios relevant to both desktop and server environments.

Q: Beyond just scripting, what tangible benefits will I gain in my day-to-day IT role after completing this 2-hour course?

Upon completion, you will be equipped to identify and eliminate manual, repetitive tasks that consume significant time. You'll gain practical skills to automate routine backups, organize files, generate simple reports, trigger external applications, and perform basic web data retrieval. This will not only free up your time for more complex problem-solving but also significantly reduce human error, leading to increased operational efficiency and reliability in your IT environment, making you a more valuable and productive team member.

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.

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