



PYTHON TRAINING

Python Certification Course

Elevate your coding skills: achieve Python certification to develop powerful applications and automate complex tasks.

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

Unlock the power of Python, the most versatile and in-demand programming language, with Computer Pride's Intermediate Python Certification Course. This accelerated 2-hour program is expertly designed for individuals who possess foundational Python knowledge and are looking to solidify their understanding of intermediate concepts, best practices, and practical applications. Through a focused curriculum, you will delve into advanced data structures, object-oriented programming principles, error handling, file I/O operations, and the effective use of Python's standard library, preparing you for more complex development tasks.

This certification serves as a powerful validation of your enhanced Python skills, making you a more competitive candidate in the dynamic Kenyan tech landscape. By completing this course, you will not only gain a deeper grasp of Python's capabilities but also learn how to write cleaner, more efficient, and robust code. Whether your goal is to advance in your current role, transition into a new tech career, or simply enhance your scripting and automation abilities, this certification provides the concentrated knowledge and official recognition needed to achieve your professional aspirations. Elevate your programming prowess and open doors to diverse opportunities across various industries.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Advanced Python Fundamentals

- Review of Data Types and Structures (Lists, Tuples, Dictionaries, Sets)
- Advanced Control Flow (Looping techniques, Conditional expressions)
- Functions Revisited (Arguments, Scope, Lambda Functions)
- List, Dictionary, and Set Comprehensions

02 Module 2: Object-Oriented Programming (OOP) & Error Handling

- Classes and Objects
- Instance and Class Variables
- Methods (Instance, Class, Static)
- Basic Inheritance Concepts
- Handling Exceptions with try-except-finally
- Custom Exceptions

03 Module 3: File I/O and Standard Library Essentials

- Reading and Writing Text Files
- Working with Binary Files
- Context Managers (with statement)
- Introduction to Common Standard Library Modules (e.g., ``os``, ``sys``, ``math``, ``datetime``)

04 Module 4: Best Practices & Practical Application

- Code Style and Readability (PEP 8 Guidelines)
- Introduction to Modules and Packages
- Basic Debugging Techniques
- Small Project: Scripting for Data Processing or Task Automation

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Python Developer (Enhanced Proficiency)**
- > **Automation Scripting Specialist**
- > **Data Analysis Assistant (Scripting & Manipulation Focus)**

FREQUENTLY ASKED QUESTIONS

Q: What foundational knowledge should I have before enrolling in this Intermediate Python Certification Course?

To get the most out of this accelerated intermediate course, you should have a solid understanding of Python's basic syntax, including variables, basic data types (integers, strings, booleans), fundamental control structures (if/else, for loops, while loops), and how to define and call simple functions. Familiarity with basic problem-solving logic using Python is also highly recommended.

Q: Despite its 2-hour duration, how does this certification enhance my readiness for real-world Python projects or specific industry applications?

This 2-hour Intermediate Python Certification is designed as an intensive, focused program to validate and consolidate your understanding of key intermediate Python concepts essential for practical development. It refines your skills in object-oriented programming, robust error handling, efficient file operations, and encourages best coding practices. While not an exhaustive deep dive into every application, it provides the critical building blocks and a recognized credential that empowers you to confidently tackle more complex scripting, automation, and data manipulation tasks, making you more effective in roles like junior development or data analysis support.

Q: What specific coding skills will I be able to demonstrate upon receiving this Python certification?

Upon successful completion of this certification, you will be able to confidently implement object-oriented solutions using classes and inheritance, effectively manage and handle runtime errors, perform secure and efficient file input/output operations, utilize core modules from Python's standard library to extend functionality, and write more readable and maintainable Python code adhering to industry best practices like PEP 8. These skills are directly applicable to building more robust and scalable applications.

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