



PYTHON TRAINING

Python Training Online

Master intermediate Python for data analysis, web development, and automation. Build robust applications efficiently.

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 with Computer Pride's Intermediate Python Training Online, designed for those who have a foundational understanding of programming concepts and basic Python syntax. This intensive 2-hour course focuses on elevating your Python proficiency by diving into more advanced data structures, essential object-oriented programming (OOP) principles, and practical file handling techniques. You'll gain hands-on experience that solidifies your ability to write cleaner, more efficient, and scalable Python code.

This course is meticulously crafted to bridge the gap between beginner and advanced Python development, making you more marketable in a rapidly evolving tech landscape. By mastering topics like list comprehensions, dictionary operations, and custom class creation, you'll be well-equipped to tackle complex scripting tasks and contribute effectively to larger software projects. Graduates will emerge with enhanced problem-solving skills and the confidence to leverage Python for data manipulation, automation, and application development, significantly boosting their professional portfolio and career prospects within the Kenyan ICT sector and beyond.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Advanced Data Structures and Operations

- Review of Lists, Tuples, Sets, and Dictionaries
- List Comprehensions and Generator Expressions
- Advanced Dictionary Operations (setdefault, collections.Counter)
- Working with Sets (union, intersection, difference)
- Introduction to Immutable vs. Mutable Types

02 Module 2: Object-Oriented Programming (OOP) in Python

- Understanding Classes and Objects
- Defining Methods and Attributes
- Constructors (__init__) and Instance Variables
- Introduction to Inheritance (basic concepts)
- Encapsulation and Data Hiding

03 Module 3: File Handling and Error Management

- Reading and Writing Text Files
- Using the 'with' Statement for File Handling
- Working with CSV Files (basic csv module usage)
- Understanding Exceptions and Error Types
- Implementing Try-Except Blocks for Robust Code

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Python Developer (focus on scripting and automation)**
- > **Data Analyst Assistant (utilizing Python for data cleaning and manipulation)**
- > **Automation Specialist (developing scripts for routine task automation)**

FREQUENTLY ASKED QUESTIONS

Q: What prior knowledge or prerequisites are essential for enrolling in this Intermediate Python Training Online course?

This course is designed for individuals who already possess a fundamental understanding of Python programming, including basic syntax, variables, data types, control flow (if/else, loops), and functions. While not strictly required, prior experience with a beginner Python course or self-study equivalent to our 'Introduction to Python' is highly recommended to fully benefit from the intermediate concepts covered.

Q: How will this 2-hour online Python course specifically enhance my career opportunities in the Kenyan job market?

This intensive 2-hour course is specifically designed to refine your practical Python skills, focusing on areas like object-oriented programming and advanced data structures which are highly sought after for scripting, automation, and data pre-processing roles. By mastering these intermediate concepts, you'll be better equipped for junior developer, data analysis assistant, or automation specialist roles, demonstrating your capability to write more efficient and maintainable code, a critical skill valued by employers in Kenya's growing tech industry.

Q: Will I be able to build small applications or automate tasks immediately after completing this intermediate training?

Yes, absolutely. Upon successful completion of this course, you will gain the practical skills necessary to develop more sophisticated scripts and small applications. The modules on object-oriented programming will enable you to structure your code better, while file handling techniques will empower you to process data and automate tasks such as reading/writing to CSVs or managing system files efficiently. You'll be ready to apply these skills to solve real-world problems and enhance your productivity.

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