



PYTHON TRAINING

Python Online Course

Master intermediate Python programming. Develop efficient scripts, advanced data structures, and object-oriented solutions.

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 Python Online Course at Computer Pride is specifically designed for individuals who have a foundational understanding of Python and are eager to elevate their coding proficiency. In just two highly focused hours, you will delve into intermediate Python concepts, moving beyond basic syntax to explore more efficient and powerful programming techniques. The course emphasizes practical application, equipping you with the tools to write cleaner, more robust, and scalable Python code.

Through engaging modules, you will explore advanced data structures, master functional programming paradigms, and solidify your understanding of object-oriented principles. You'll learn how to leverage Python's rich feature set to solve complex problems more elegantly and efficiently, which is crucial for modern software development and data analysis tasks. This course serves as a critical bridge between beginner-level scripting and professional-grade Python development, ensuring you can tackle more challenging projects with confidence.

Completing this certification will not only enhance your technical skills but also significantly boost your confidence in tackling real-world Python challenges. You'll be better prepared for roles requiring a deeper understanding of Python's capabilities, enabling you to contribute more effectively to team projects and advance your career in various tech domains.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Advanced Data Structures and Comprehensions

- In-depth review of Lists, Tuples, Sets, and Dictionaries
- List, Dictionary, and Set Comprehensions for concise code
- Generator Expressions for memory-efficient iteration
- Using `collections` module for specialized data types

02 Module 2: Mastering Functions and Decorators

- Lambda functions for anonymous operations
- Higher-order functions: `map`, `filter`, and `reduce`
- Introduction to decorators for extending function behavior
- Function arguments: `\*args` and `\*\*kwargs`

03 Module 3: Essential Object-Oriented Programming (OOP) in Python

- Classes and Objects: Blueprinting your code
- Attributes and methods
- Encapsulation and basic inheritance concepts
- Special methods (`\_\_init\_\_`, `\_\_str\_\_`)

04 Module 4: Robust Code: Error Handling and File Operations

- Handling exceptions with `try`, `except`, `else`, and `finally`
- Custom exception handling
- Reading and writing files with `open()`
- Using `with` statement for automatic resource management

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Python Developer (Advanced)**
- > **Data Analyst (Python Scripting Specialist)**
- > **Automation & Scripting Engineer**

FREQUENTLY ASKED QUESTIONS

Q: What specific Python concepts will I master to enhance my existing coding projects after completing this 2-hour course?

Upon completion of this course, you will master techniques like list and dictionary comprehensions for more efficient data manipulation, advanced function features including lambda functions and custom decorators for cleaner code, and fundamental object-oriented programming principles to structure larger projects effectively. You'll also gain proficiency in robust error handling and secure file I/O, allowing you to build more reliable and maintainable Python applications.

Q: Is previous coding experience required, or is this Python Online Course suitable for someone transitioning from basic scripting?

This course is specifically designed for individuals who have a foundational understanding of Python programming. While it's not for absolute beginners, it is perfectly suited for those transitioning from basic scripting who wish to deepen their knowledge, understand more complex Python constructs, and apply best practices to their code. A grasp of basic Python syntax, data types, and control flow is expected.

Q: How does this 2-hour intermediate course prepare me for more complex Python development roles compared to a beginner's course?

Unlike a beginner's course that introduces core syntax, this intermediate course focuses on enhancing your problem-solving capabilities by teaching you to write more Pythonic, efficient, and maintainable code. You will learn concepts such as functional programming tools, object-oriented design, and advanced error handling, which are critical for tackling complex software development tasks, contributing to larger codebases, and assuming roles that require more than just basic scripting knowledge.

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+

10,000+

50+

Years of Excellence

Professionals Trained

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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