



PYTHON TRAINING

Python Course Online

Elevate your coding with our Intermediate Python Course Online. Master advanced Python features and build powerful, efficient applications.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

Elevate your Python proficiency with Computer Pride's Intermediate Python Course Online. Designed for learners who have a foundational understanding of Python syntax and basic programming concepts, this accelerated 2-hour program dives deeper into core Python capabilities, equipping you with the skills to write more efficient, robust, and organized code. You will explore advanced data structures, master function paradigms, implement effective error handling, and get an essential introduction to Object-Oriented Programming (OOP) principles.

This course is meticulously structured to provide maximum impact in a concise timeframe, focusing on practical application and best practices. By the end of this engaging online experience, you'll be capable of tackling more complex scripting challenges, automating routine tasks, and laying a solid groundwork for specialized fields like data analysis, web development, or machine learning. Boost your problem-solving abilities and enhance your coding style, making you a more valuable asset in any tech-driven role.

Unlock immediate professional benefits as you solidify your Python expertise. This certification signifies your readiness to move beyond basic scripting, demonstrating a commitment to advanced programming concepts that are highly sought after in today's digital economy. Position yourself for growth and open doors to new opportunities by mastering the critical intermediate-level skills in the world's most versatile programming language.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Advanced Data Structures & Comprehensions

- Review of Lists, Tuples, Dictionaries, and Sets
- List, Dictionary, and Set Comprehensions for concise code
- Introduction to `collections` module (e.g., `defaultdict`, `Counter`)

02 Module 2: Functions, Scope & Modules

- Advanced function arguments (`*args`, `**kwargs`)
- Lambda functions and higher-order functions (`map`, `filter`, `reduce`)
- Understanding variable scope (LEGB rule)
- Creating and importing custom Python modules

03 Module 3: Error Handling & File I/O

- Handling exceptions with `try-except-finally` blocks
- Custom exceptions and raising errors
- Reading and writing text files (`open`, `read`, `write`, `close`, `with` statement)
- Working with CSV files (introduction to `csv` module)

04 Module 4: Introduction to Object-Oriented Programming (OOP)

- Fundamental OOP concepts: Classes, Objects, Attributes, Methods
- Defining classes and creating instances
- Understanding `self` and constructor (`__init__`)
- Basic inheritance and polymorphism concepts

05 Module 5: Essential Standard Libraries & Best Practices

- Exploring common ``os`` and ``sys`` module functionalities
- Working with ``datetime`` objects for time and date manipulation
- Debugging techniques in Python
- Writing clean, readable, and maintainable Python code (PEP 8 guidelines)

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Python Developer (focus on scripting & automation)**
- > **Data Analysis Assistant (for data cleaning and manipulation tasks)**
- > **IT Operations Support Specialist (for task automation and utility script development)**

FREQUENTLY ASKED QUESTIONS

Q: What are the specific prerequisites for enrolling in this Intermediate Python Course Online?

To get the most out of this 2-hour intermediate course, you should have a solid grasp of Python fundamentals, including basic data types (integers, strings, booleans), control flow (if/else, for loops, while loops), and an understanding of how to define and call simple functions. Familiarity with basic problem-solving logic using Python is also highly recommended.

Q: How will this specific 2-hour online Python course directly enhance my ability to automate tasks and build practical scripts?

This course is designed to transition you from basic scripting to writing more sophisticated and resilient code. You will learn to handle errors gracefully, manage file operations efficiently, organize your code using functions and modules, and grasp the basics of Object-Oriented Programming. These skills are crucial for building robust automation scripts, processing data from files, and developing more structured and scalable Python applications for various operational tasks.

Q: What practical skills will I acquire that are immediately applicable in a professional IT environment after completing this course?

Upon completion, you will be proficient in using advanced data structures and comprehensions for efficient data manipulation. You'll be able to implement robust error handling, perform file I/O operations (including CSVs), and organize your code using modules and basic OOP principles. These skills are directly applicable to roles requiring data processing, system automation, report generation, and the development of maintainable utility scripts in professional IT settings.

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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