



PYTHON TRAINING

Python Training Certification Courses

Advance your programming career by mastering Python. Develop powerful scripts and data solutions with our expert-led certification.

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 your potential with Computer Pride's Python Training Certification Course, designed for those ready to move beyond the basics and master Python's practical applications. This intensive 2-hour session focuses on key intermediate concepts, equipping you with the skills to write more efficient, robust, and scalable Python code. You'll dive into advanced data structures, functional programming paradigms, and object-oriented principles, transforming your ability to tackle complex programming challenges.

This course is engineered for immediate professional impact, enabling you to automate tasks, analyze data with greater precision, and build more sophisticated applications. By the end of this certification, you'll not only understand intermediate Python concepts but also be able to apply them effectively in real-world scenarios, boosting your productivity and opening doors to specialized roles in development and data science. Elevate your coding proficiency and enhance your career prospects with this focused, hands-on training.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Advanced Data Structures & Comprehensions

- Review of lists, tuples, dictionaries, and sets
- Introduction to `collections` module (Counter, defaultdict, deque)
- List, Dictionary, and Set Comprehensions for concise code
- Generator expressions for memory-efficient iteration

02 Module 2: Functions, Decorators, and Error Handling

- Lambda functions and higher-order functions
- Introduction to decorators for extending function behavior
- Customizing functions with `\*args` and `\*\*kwargs`
- Robust error handling with `try-except-finally` blocks
- Creating custom exceptions

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

- Classes and objects: properties and methods
- Inheritance and polymorphism for code reusability
- Encapsulation and data hiding principles
- Special methods (dunder methods) for custom object behavior

04 Module 4: File I/O and Basic Data Processing

- Reading and writing text files (`.txt`)
- Working with CSV files (csv module)
- JSON data manipulation (json module)
- Context managers (with statement) for resource management

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Data Analyst (focused on scripting and data manipulation)**
- > **Automation Script Developer (for IT operations or testing)**
- > **Backend Web Development Assistant (scripting API interactions)**

FREQUENTLY ASKED QUESTIONS

Q: What specific coding challenges will I be able to solve after completing this 2-hour intermediate Python course?

Upon completion, you'll be capable of solving problems requiring efficient data manipulation using advanced structures and comprehensions, automating repetitive tasks with robust functions and error handling, and building more modular code through object-oriented programming principles. This includes parsing specific data formats from files and structuring solutions for greater scalability.

Q: What are the prerequisites for enrolling in this intermediate Python Training Certification Course?

This course assumes a foundational understanding of Python basics. You should be comfortable with fundamental data types, control flow (if/else, loops), basic function definition, and importing modules. It is ideal for individuals who have completed an introductory Python course or have equivalent hands-on experience.

Q: How does this 2-hour certification fit into a broader career development path for a Python developer?

This intensive 2-hour course serves as a crucial bridge between beginner and advanced Python skills. It's perfect for solidifying intermediate concepts quickly, allowing you to immediately apply these skills to current projects. For long-term growth, it lays a strong foundation for exploring specialized areas like web development frameworks (Django/Flask), data science libraries (Pandas/NumPy), or advanced automation, making your subsequent learning paths more effective and targeted.

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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