



PYTHON TRAINING

Python Intro Course

Advance your Python skills. Master data structures, OOP, and build powerful, efficient applications in this intermediate course.

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 the power of Python, the world's most versatile and in-demand programming language, with Computer Pride's Intermediate Python Intro Course. This intensive 2-hour program is meticulously designed to bridge the gap between foundational programming concepts and practical Python application, setting you on a path to becoming a proficient developer. You will dive into core Python syntax, fundamental data structures, control flow mechanisms, and the art of writing clean, efficient functions, all crucial for building robust and scalable applications. This course emphasizes hands-on coding, ensuring you not only understand the theory but also gain the practical skills needed to implement Python solutions effectively.

By completing this course, you will not only master the essential elements of Python programming but also gain a significant advantage in the competitive tech landscape. Python's widespread use in web development, data science, machine learning, automation, and cybersecurity makes it an indispensable skill for various career paths. This certification equips you with a solid understanding of object-oriented principles within Python, error handling, and file I/O operations, preparing you to tackle more complex projects and seamlessly transition into advanced Python specializations. Invest in your future and leverage Python to innovate and solve real-world problems.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Python Fundamentals and Environment Setup

- Introduction to Python: History, Features, and Applications
- Setting up your Python development environment (IDE choice, virtual environments)
- Basic Syntax: Variables, Data Types (Integers, Floats, Strings, Booleans)
- Operators: Arithmetic, Comparison, Logical, Assignment

02 Module 2: Control Flow and Data Structures

- Conditional Statements: if, elif, else
- Looping Constructs: for loops, while loops
- Iterables and Iterators
- Python Collections: Lists, Tuples, Dictionaries, Sets

03 Module 3: Functions and Modularity

- Defining and calling functions
- Function parameters and return values
- Scope of variables (Local vs. Global)
- Lambda functions and higher-order functions
- Introduction to Modules and Packages

04 Module 4: Error Handling and File I/O

- Understanding common Python errors and exceptions
- Using try-except blocks for error handling
- Working with files: Reading, Writing, and Appending data
- Context Managers with `with` statements

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Python Developer (Entry-Level applications and scripting)**
- > **Data Analyst Assistant (Scripting for data cleaning and manipulation)**
- > **IT Automation Specialist (Developing scripts for routine IT tasks)**

FREQUENTLY ASKED QUESTIONS

Q: What specific skills will I acquire that are immediately applicable in a professional setting after completing this Python Intro Course?

Upon completion, you'll be proficient in writing clean and efficient Python scripts, manipulating various data structures (lists, dictionaries), implementing control flow logic (loops, conditionals), and creating reusable functions. You'll also gain practical experience in basic error handling and file operations, making you capable of automating simple tasks, performing data cleaning, and contributing to entry-level Python development projects.

Q: Are there any prerequisites for enrolling in this Intermediate Python Intro Course, given its 2-hour duration?

While it's an 'Intro Course,' its 'Intermediate' level implies a basic familiarity with programming concepts is beneficial. We recommend participants have a foundational understanding of logical thinking, problem-solving, and perhaps some exposure to another programming language or basic algorithmic concepts. No prior Python-specific experience is strictly required, but a quick review of core programming logic would be advantageous to maximize your learning in this focused 2-hour session.

Q: How does this specific 2-hour Python Intro Course prepare me for more advanced Python certifications or roles in fields like Data Science or Web Development?

This course provides the crucial building blocks necessary for specialization. By mastering Python's core syntax, data structures, and functional programming concepts, you establish a robust foundation. This enables you to seamlessly transition into advanced topics like data manipulation with Pandas for Data Science, web frameworks like Django or Flask for Web Development, or machine learning libraries, as you'll already possess a solid command of the underlying Python language used in those specialized domains.

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

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