



PYTHON TRAINING

A Day In Python Course

Master Python essentials in a single day. Write clean, functional code and confidently tackle real-world programming tasks.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

The "A Day In Python Course" offers an intensive, hands-on dive into the practical applications of Python, designed for individuals who possess foundational programming knowledge and are eager to rapidly leverage Python for immediate problem-solving. In just two hours, participants will refresh their understanding of core Python syntax, explore essential data structures, and gain proficiency in writing functional scripts. This course focuses on practical, real-world scenarios, enabling you to quickly apply Python for data manipulation, task automation, and efficient problem-solving within your professional domain. This fast-paced session is ideal for those looking to solidify their intermediate Python skills or bridge gaps in their current understanding, providing a robust toolkit for enhanced productivity.

By the end of this engaging course, you will not only be more confident in writing clean and effective Python code but also understand how to integrate Python into your daily workflow to automate mundane tasks and analyze data with greater efficiency. The benefits extend beyond technical skills, fostering a mindset of computational thinking and equipping you with a versatile language that is highly sought after across various industries. Whether you're aiming to streamline your current role or prepare for more advanced Python applications, this course offers a powerful leap forward in a condensed timeframe.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Python Essentials & Environment Setup Refresher

- Setting up your Python development environment (brief overview)
- Review of Python's core syntax: variables, data types, and operators
- Understanding basic input/output operations and program execution flow
- Introduction to code commenting and basic readability practices

02 Module 2: Mastering Data Structures & Control Flow

- In-depth exploration of Python's essential data structures: Lists, Tuples, Sets, and Dictionaries
- Implementing conditional logic: `if`, `elif`, and `else` statements for decision-making
- Utilizing looping constructs: `for` and `while` loops for iteration
- Introduction to list comprehensions for concise list manipulation

03 Module 3: Functions, Modules & Error Handling Fundamentals

- Defining and utilizing custom functions for code reusability and modularity
- Importing and effectively using standard library modules (e.g., `math`, `datetime`, `os`)
- Understanding and implementing basic exception handling with `try-except` blocks for robust scripts
- Best practices for function design and parameter passing

04 Module 4: Practical Scripting & Problem-Solving Workshop

- Hands-on exercise: Developing a simple Python script to automate a common repetitive task (e.g., basic file manipulation or data processing)
- Techniques for reading from and writing to basic text files
- Introduction to debugging strategies and tools for identifying and fixing errors
- Applying learned concepts to solve a practical coding challenge in real-time

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Data Analyst (for scripting data cleaning and transformation tasks)**
- > **IT Support Specialist (for automating routine system checks and report generation)**
- > **Business Process Automation Specialist (for developing small scripts to streamline workflows)**

FREQUENTLY ASKED QUESTIONS

Q: What specific practical Python scripts or automation tasks will I be equipped to create immediately after completing 'A Day In Python Course'?

Upon completion, you will be able to write basic Python scripts to automate tasks such as organizing files in a directory, performing simple data extraction from text files, generating basic reports, or manipulating lists and dictionaries for various data preparation needs. The course provides the foundational hands-on skills to tackle common repetitive tasks in office or IT environments, significantly boosting your personal productivity.

Q: What prior programming experience or Python knowledge is expected for participants to thrive in this intermediate 2-hour session?

This course is designed for individuals who have a foundational understanding of programming concepts. Ideally, you should be familiar with basic syntax from any programming language (variables, loops, conditions) or have completed an introductory Python course. While we will briefly review core Python concepts, the pace is quick, assuming you can quickly grasp or recall these fundamentals to focus on practical application.

Q: How does 'A Day In Python Course' serve as a foundational stepping stone for more advanced specializations like Data Science, Web Development, or IT Automation?

'A Day In Python Course' provides a crucial link between basic Python knowledge and its practical application, which is essential for any advanced specialization. By focusing on efficient scripting, data structures, and problem-solving, it builds the practical coding muscle needed for data manipulation in Data Science, handling logic in Web Development backends, or writing complex automation scripts in IT. It ensures your Python fundamentals are solid and immediately applicable, preparing you to tackle more complex libraries and frameworks in specialized fields.

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

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READY TO ENROL?

Take the next step in your technology career.

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