Advanced Python Programming / Next-Level Python (TTPS4850)

Price: 2395

Duration: 4 days

Delivery Methods: Virtual

Overview

Advanced Python Programming is a four-day, expert-led course designed for professionals with basic Python experience who want to move beyond simple scripts and develop real-world programming expertise. Python is a powerful and versatile language, but to fully harness its potential, you need to understand how to write more efficient, scalable, and maintainable code. This course helps bridge that gap by focusing on practical skills that make your Python development faster, more organized, and better suited for professional applications.

Guided by our expert instructor, you will gain hands-on experience with Python's advanced features, learning how to work with OS services, automate tasks, manage files and directories, and apply best practices in structuring and optimizing your code. These next-level skills are essential for anyone looking to build robust applications, streamline workflows, or handle large-scale data processing. You will learn how to debug and profile code effectively, implement unit tests using PyTest, and interact with databases using SQL and ORM tools. You will also explore network programming, work with APIs, and leverage concurrency techniques like threading, multiprocessing, and asynchronous programming to improve performance. For those interested in application development, the course includes practical instruction on GUI development with PyQt, as well as working with structured data formats like JSON, XML, and YAML.

With 50% of the course dedicated to hands-on exercises, you will not just learn these skills—you will apply them in real scenarios, giving you the confidence and experience to use Python effectively in professional settings.

Audience Profile

This intermediate and beyond level course is designed for professionals who have basic Python experience and want to deepen their skills for more advanced programming, automation, and application development. It is ideal for software developers, data analysts, system administrators, and engineers looking to write more efficient code, work with real-world data, and build scalable applications.

Prerequisites

To get the most out of this expert-led, hands-on course, you should have a basic understanding of Python and some experience writing simple scripts. This course builds on foundational Python skills, so you will be ready to take on more advanced programming concepts.

Here are a few key prerequisites:

Basic Python Syntax and Data Structures – You should be comfortable with variables, loops, conditionals, functions, and common data types like lists, dictionaries, and tuples.

Writing and Running Simple Python Scripts – Experience creating and executing Python scripts, whether for basic automation, simple data processing, or small projects.

Some Exposure to Modules and File Handling – A general understanding of how to import and use Python modules, as well as read and write to files, will be helpful.

Course Schedule

Date	Time	Price	Options
06/15/2026	09:00 AM - 05:00 PM CT	2,395.00	**Buy Now Enroll**
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FAQ

What if I have to reschedule my class due to conflict?

Ten (10) business days' notice is required to reschedule a class with no additional fees. Notify TOPTALENT LEARNING as soon as possible at 469-721-6100 or by written notification to info@toptalentlearning.com to avoid rescheduling penalties.

How do I enroll for this class?

Please contact our team at 469-721-6100; we will gladly guide you through the online purchasing process.

What happens once I purchase a class?

You will receive a receipt and an enrollment confirmation sent to the email you submitted at purchase. Your enrollment email will have instructions on how to access the class. Any additional questions our team is here to support you. Please call us at 469-721-6100.

What is your late policy?

If a student is 15 minutes late, they risk losing their seat to a standby student. If a student is 30 minutes late or more, they will need to reschedule. A no-show fee will apply. Retakes are enrolled on a stand-by basis. The student must supply previously issued courseware. Additional fees may apply.

What happens when I finish my class?

You will receive a 'Certificate of Completion' once you complete the class. If you purchased an exam voucher for the class, a team member from TOPTALENT LEARNING will reach out to discuss your readiness for the voucher and make arrangements to send it.