

Python for Networking & Systems

Administration / SysAdmin (TTPS4824)

Price: 2595

Duration:

Delivery Methods: Virtual

Overview

Python Essentials for Networking & Systems Administration / SysAdmin is tailored for IT professionals, systems administrators, and network engineers who want to harness the power of Python to simplify and automate everyday tasks across distributed systems. Whether you're new to scripting or looking to expand your skillset, this course provides the perfect opportunity to build essential Python expertise and apply it to real-world scenarios. Working in a hands-on lab environment, you'll start with foundational Python scripting essentials like file operations, regular expressions, and working with binary data, then progress to leveraging network-focused modules such as SSH, Git, and RESTful services. With a strong emphasis on practical application, this course ensures you're not just learning syntax but mastering the tools to solve real challenges in your role.

Unlike quick overviews that leave you scrambling for context, this course emphasizes learning by doing. Through engaging labs and guided exercises, you'll develop tangible skills that translate directly to automating critical tasks like system configuration, network requests, and administrative workflows. Designed for technical professionals who manage distributed systems or oversee network operations, this class equips you to apply Python immediately on the job. By the end of the course, you'll have the confidence and knowledge to use Python as a powerful tool to enhance productivity and efficiency in your day-to-day responsibilities.

Audience Profile

This introductory-level Python course is appropriate for advanced users, system administrators and web site administrators who want to use Python to support their server installations, as well as anyone else who wants to automate or simplify common tasks with the use of Python scripts. Students should have basic development experience in any programming language, along with a working, user-level knowledge of Unix/Linux, Mac, or Windows.

At Course Completion

This course combines engaging instructor-led presentations and useful demonstrations with valuable hands-on labs and engaging group activities.

Throughout the course you'll learn how to:

Automate Networking and Administrative Tasks: Gain the ability to use Python scripts to automate repetitive tasks, such as configuring systems, managing files, and performing network diagnostics across distributed environments.

Work with Python's Networking Libraries: Develop proficiency in leveraging Python's built-in and third-party libraries, including modules like Paramiko for SSH, requests for RESTful services, and socket programming for custom protocols.

Handle Data Efficiently: Master the techniques for processing, manipulating, and storing data using Python, including working with text files, binary data, JSON, XML, and CSV formats.

Develop Secure and Scalable Scripts: Learn best practices for creating efficient and secure Python scripts that can be easily scaled or integrated into existing workflows, ensuring reliability in production environments.

Build Real-World Python Solutions: Apply the skills learned to complete practical projects, such as fetching web content, automating email tasks, and implementing multi-threaded scripts for improved system performance.

Prerequisites

To ensure a smooth learning experience and maximize the benefits of attending this course, you should have the following prerequisite skills:

At least some prior hands-on experience with scripting or programming. You don't need to be an expert in either, but you should have had some exposure and should be coming from a technical background.

Working with Unix or Linux, and familiarity with using the command line interface for simple tasks, such as file navigation and executing commands.

Basic familiarity working with text editors like Notepad, or IDEs, would be helpful as the course includes hands-on lab sessions requiring code editing.

Course Schedule

Date	Time	Price	Options
09/14/2026	09:00 AM - 05:00 PM CT	2,595.00	Buy Now Enroll
06/22/2026	09:00 AM - 05:00 PM CT	2,595.00	Buy Now Enroll

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FAQ

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What is your late policy?

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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.