Introduction to Python (PY100)

COURSE OVERVIEW

This Python fundamentals course provides essential skills required for anyone looking to advance in Python programming. It is ideal for both beginners taking their first steps in programming and seasoned developers transitioning to Python or seeking to fill gaps in their knowledge. Over two hands-on days, participants will master the core concepts that form the foundation of all Python programming and are critical for any further specialization. Additionally, this course includes all the necessary labs to prepare for and earn the **PCEP certification**, making it a perfect choice for those seeking official recognition of their Python proficiency. By the end of this course, students will be equipped with the essential Python knowledge and practical skills necessary for success in any Python-driven field or project. Whether you're just starting out or refining your expertise, this course will solidify your Python foundation and prepare you for advanced applications.

WHO WILL BENEFIT FROM THIS COURSE?

- Anyone looking to build a strong foundation in Python
- Software Developers

PREREQUISITES

Keyboard proficiency

COURSE OBJECTIVES

- Understand the Basics of Python Programming: Build foundational knowledge of Python, including functions, objects, and methods.
- Work with Core Data Structures: Learn how to create, manipulate, and apply Python lists and dictionaries for effective data handling.
- Master Conditional Logic and Control Flow: Use if-elif-else statements and loops (for and while) to build dynamic and responsive scripts.
- Interact with Files in Python: Gain hands-on experience reading from and writing to files for data storage and processing.

COURSE OUTLINE

Day 1- Foundational Python

- Built-in Functions
- Custom Functions
- Objects and Methods
- Python Lists
- Python Lists
- Python Dictionaries

- Python Dictionaries
- Conditionals
- If, Elif, and Else Conditions
- While Loops

Day 2- Foundational Python (Continued)
- For Loops
- Reading and Writing to Files
- Reading Files
- Using Modules
- PIP and Third Party Libraries
- Try and Except
- Python Classes & Inheritance

Optional- PCEP Certification Guide
- Introduction to the PCEP Exam
- Advanced Numbers and Operators
- Pythonic Loops and Iteration
- Advanced Lists and Tuples
- Advanced Functionality and Error Handling

PCEP Mock Exams
- Mock Exam 1
- Mock Exam 2
- Mock Exam 3
- Mock Exam 4

WHY TRAIN WITH SUNSET LEARNING INSTITUTE?

Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their technology Investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team
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- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience

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- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

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- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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