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PHOENIX TS

Advanced Python 3 Programming Training

This advanced training addresses the programming language's more complicated features such as high level data structures, constructing GUIs, network and CGI programming.

BONUS! Cyber Phoenix Subscription Included: All Phoenix TS students receive complimentary ninety (90) day access to the Cyber Phoenix learning platform, which hosts hundreds of expert asynchronous training courses in Cybersecurity, IT, Soft Skills, and Management and more!

Course Overview

Our 2-day, instructor-led Advanced Python 3 Programming Training course, students already familiar with Python programming will learn the following:

- Advanced Python techniques such as Jupyter Notebook, the Collections module
- Mapping and filtering, lamba functions, advanced sorting
- Working with regular expressions in Python
- Working with databases, CSV files, JSON and XM
- Writing object-oriented code, testing and debugging
- Unicode and text encoding.

Students should be familiar with Python programming. This knowledge can be developed in the Introduction to Python 3 Programming Training course.

Schedule

Currently, there are no public classes scheduled. Please contact a Phoenix TS Training Consultant to discuss hosting a private class at 301-258-8200.

Course Outline

Advanced Python Concepts

- Lambda functions
- Advanced list comprehensions
- Exercise – rolling 5 dice
- Collections module
- Exercise – creating a defaultdict
- Exercise – creating a OrderdDict
- Exercise – creating a counter
- Exercise – working with a deque
- Mapping and filtering
- Mutable and immutable built-in objects
- Sorting
- Exercise – converting list.sort() to sorted (iterable)
- Unpacking sequences in functions calls
- Exercise – converting a string to a datetime.date object
- Modules and packages

Working With Data

- Relational databases
- Exercise – querying a SQLite database
- Exercise – inserting file dat into ad atabase
- CSV
- Exercise – comparing data in a CSV file
- Getting data from the web
- Exercise – requests and beautiful soup
- JSON
- Exercise – using JSON to print course data

Testing And Debugging

- Testing for performance
- The unittest module
- Exercise – fixing functions

Classes And Objects

- Attributes
- Behaviors
- Classes vs objects
- Attributes and methods
- Exercise – adding a roll() method to die
- Private attributes
- Properties
- Exercise – properties
- Documenting classes
- Exercise – documenting the die class
- Inheritance
- Exercise – extending the die class
- Exercise – extending the roll() method
- Static methods
- Class attributes and methods
- Abstract classes and methods
- Understanding decorators

Advanced Python 3 Programming Training FAQs

Who should take Advanced Python 3 Programming Training?

Programmers seeking to advance their Python programming skills and basic programmers who want to learn how to incorporate the language into frameworks, software and other programs.

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individual courses for CPE credit. Complaints re-garding registered sponsors may be submitted to the National Registry of CPE Sponsors through its web site: www.nasbaregistry.org

Starting at **$1,790**

Price Match Guarantee

We'll match any competitor's price quote. Call 301-258-8200 Option 4.

This **Advanced Python 3 Programming Training** class includes:

- 2 days instructor-led training
- Advanced Python 3 Programming Training book
- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class*
- Tea, coffee and soda available throughout the day*
- Freshly baked cookies every afternoon*

*denotes this benefit is only available at participating locations