

MASTERING PYTHON PROGRAMMING

5 Days Classroom
5 Days Live Online

Individual: \$2595

Group: \$2495

GSA: \$1946.25

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COURSE OVERVIEW

Mastering Python Programming is an introductory and beyond-level practical, hands-on Python training course that leads the student from the basics of writing and running Python scripts to more advanced features. Students will learn to write essential Python scripts using the most current and efficient skills and techniques.

COURSE OUTLINE

Part 1: An Overview of Python

1. What is python?
2. Python Timeline
3. Advantages/Disadvantages

Part 2: The Python Environment

1. Starting Python
2. Using the interpreter
3. Running a Python script

Part 3: Getting Started

1. Using variables
2. Builtin functions
3. Strings

Part 4: Flow Control

1. About flow control
2. White space
3. Conditional expressions

Part 5: Array types

1. About array types (AKA sequences)
2. Lists and list methods

Part 6: Working with files

1. File overview
2. Reading and writing raw (binary) data

Part 7: Dictionaries and Sets

1. Creating dictionaries
2. Working with sets

Part 8: Functions

1. Defining functions
2. Parameters

Part 9: Sorting

1. The sorted() function
2. Alternate keys

Part 10: Errors and Exception Handling

1. Syntax errors
2. Exceptions

Part 11: Modules and Packages

1. The import statement
2. Module search path

Part 12: Classes

1. About o-o programming
2. Defining classes

Part 13: Regular Expressions

1. RE syntax overview
2. RE Objects

Part 14: The standard library

1. The sys module
2. Launching external programs

Part 15: Dates and times

1. Working with dates and times
2. Translating timestamps

Part 16: Working with the file system

1. Paths, directories, and filenames
2. Checking for existence

Part 17: Advanced data handling

1. Defaultdict and Counter
2. Prettyprinting data structures

Part 18: Network programming

1. Using requests
2. Grabbing web content

Part 19: Writing real-life applications

1. Reading input files a la Unix
2. Parsing command-line options

[See website for full outline](#)

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