

Certified Professional Python Programmer (CPPP)

Course Outline



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What Modules are covered?

- 1) Describe the features of the Python programming language and how and where it is used
- 2) Describe the philosophy of Python
- 3) Recognize reasons to choose one version of Python over the other
- 4) Install Python 3 on Windows
- 5) Install Python 3 on Mac OS X and Linux
- 6) Evaluate the major IDEs available for Python
- 7) Use whitespace to lay out a Python program into functional code blocks
- 8) Recognize the Python REPL – read, evaluate, print loop
- 9) Create and execute a "Hello World" application with Python
- 10) Get and manipulate user input from the command line with Python
- 11) Create a module and import a module in Python
- 12) Use the int data type in Python and recognize its characteristics
- 13) Use the float data type in Python and recognize its characteristics
- 14) Perform basic math functions, such as addition, subtraction, multiplication and division.
- 15) Use the bool data type in Python and recognize its characteristics
- 16) Describe sequence types and use the str type in Python
- 17) Use the bytes type in Python
- 18) Use the bytearray type in Python
- 19) Use the list type in Python
- 20) Use the tuple type in Python
- 21) Use slicing on sequence types in Python
- 22) Use the range function and work with range objects in Python
- 23) Use the set type in Python and describe its characteristics
- 24) Use the dict type in Python and describe its properties
- 25) Construct a while loop in Python
- 26) Construct a for loop in Python
- 27) Use the if statement in Python to control program flow
- 28) Write a Python program to reverse user input

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