COURSE SYLLABUS

Python Programming Bootcamp

Learn Python programming through hands-on projects. Work with data types, control flow, functions, object-oriented programming, error handling, and GitHub.

Group classes (NYC) and onsite training are available for this course. For more information, email corporate@nobledesktop.com or visit: https://training-nyc.com/courses/python-programming-immersive



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Course Outline

Python software environment

- Terminal commands
- Jupyter Notebook
- Variables
- Built-in functions in Python
- Data types: strings, integers, floats, lists
- Definite loops: For loops
- Practical Exercises

Logical programming

- Creating functions in Python
- The behavior of data structures
- Data types: tuples
- If, Elif, Else statements
- Indefinite loops: While loops
- Indexing and slicing
- Practical Exercises

Python built in programming

- Data types: dictionaries
- Reading from a text file
- Writing to a text file
- Appending to a text file
- Analyzing a text file's content
- Practical Exercises

Computer science fundamentals

- Big-O notation

- Binary search
- Bubble Sort
- Insertion sort
- How to write efficient code
- Practical Exercises

Application development - Project based assessment

- Review and Q&A
- Intro to Object Oriented Programming
- Working on a project
- Git and GitHub