



Format:
Instructor-led LVC

Prerequisites:

Basic knowledge of basic programming concepts and object-oriented concepts will be beneficial.

Duration:
50hours

Who Can Attend?

Web masters, Programmers, Professional Software Developers, Big Data Scientists, Analysts, Entrepreneurs, students and anyone with a passion to learn Python will find value in attending this course

Description

Python has become the undisputed programming language leader, not just in the field of data science but also for developing desktop GUI applications, websites and web applications. The large number of packages, available statistical tests and formulae and its ability to integrate with other platforms and technologies give it unparalleled versatility. In this day and age learning Python is among the most important skills to have in order to land lucrative jobs and this workshop will help you get there.

KnowledgeHut brings you a hands-on, practical 24-hour workshop that provides a comprehensive overview of the architecture and design principles of Python. The course touches upon all concepts in a detailed and concise manner. The modules are supported by exercises and practice sessions to help you gain working knowledge of the tool. This is the workshop you need to bridge your learning gap and become a success as a Python programmer.

Course Structure

1. Intro to Python

- History of Python
- Why to use Python?
- Starting Python
- Interpreter PATH
- Using the Interpreter
- Python Scripts on UNIX/Windows

2. Python Installation

- Python Editors and IDEs
- Install Anaconda

3. String Operations

- String Operations
- Data Types & Variables
- Commonly used Operators

4. Data Structures in Python

- Arrays
- Lists
- Tuples
- Dictionaries
- Sets



Course Benefits

What you will learn?

- Learn basics of Python including installation and distribution
- Master Python fundamentals such as basic syntax, variables, and types and how to use it to your advantage
- Learn about data structures that Python can handle. Create, manipulate Python lists, tuple etc.
- Learn about control, loops and other conditional statements
- Learn to build modules and execute them
- Learn to use Regular Expression and match pattern, parse data and so on
- Learn to write user defined functions and object oriented way of writing classes and objects.
- Improve your coding ability by using functions and import packages

What you will get:

- 50 hours Live Sessions
- MCQs and Assignments
- Hands-on with Python
- Includes 3 Use Case
- Recorded sessions
- Certification by CIA LLC California

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5. Control & Loop Statements in Python

- For Loop
- While Loop
- Break Statement
- Next Statements
- Repeat Statement
- if, if...else Statements
- Switch Statement

6. Functions & Classes in Python

- Writing your own functions (UDF)
- Calling Python Functions
- Functions with Arguments
- Calling Python Functions by passing Arguments
- Lambda Functions

7. Using Modules

- The Import Statement
- Module Search Path
- Package Installation Ways

8. Regular Expression

- RE Objects
- Pattern matching
- Parsing data
- Subexpressions
- Complex substitutions
- RE tips and tricks

9. Object Oriented Programming

- Introduction to Python Classes
- Defining Classes
- Initializers
- Instance Methods
- Properties
- Class Methods and Data
- Static Methods
- Private Methods and Inheritance
- Module Aliases

10. Case Study

- Use Case



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