



Information Technology

Python for Automation and SRE Essentials

Course Introduction

This comprehensive course is designed to equip professionals with no prior programming experience with a strong foundation in Python, while also enabling them to apply their skills to business-related tasks and problem-solving. By the end of this course, participants will be able to write Python scripts, manipulate data, automate tasks, and build basic tools relevant to their business environments.

Target Audience

This course is intended for professionals and business users who want to leverage Python for everyday tasks and business process improvements. It is ideal for individuals from non-technical backgrounds who are looking to enhance their analytical and technical capabilities through Python programming.

Learning Objectives

- Introduction to programming and Python basics
- Variables, data types, and control flow
- Core data structures and file handling
- Writing functions and using libraries
- Business use cases such as data analysis, automation, and reporting

Course Outline

- DAY 01

- Python Basics and Environment Setup**

- What is programming? Why Python for business?
 - Introduction to the Python environment (IDEs and tools)
 - Writing and executing simple Python scripts
 - Using print statements, variables, and basic input/output

- Day 02

- Data Types, Operators, and Control Structures**

- Working with strings, integers, floats, and booleans
 - Arithmetic and logical operators
 - Writing conditional statements (if/elif/else)
 - Using loops: for and while
 - Business logic examples using control flow

- Day 03

- Lists, Dictionaries, and File Handling**

- Creating and manipulating lists and tuples
 - Working with dictionaries and sets
 - Reading from and writing to files
 - Text processing and data extraction from business reports

- Day 04

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- **Day 05**

Business Use Cases and Final Project

- Automating data entry or processing tasks
- Analyzing CSV or Excel data using Python (e.g., with pandas)
- Creating simple dashboards or summaries
- Final hands-on project: Apply skills to a real business scenario

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 28, 2025	May 2, 2025	5 days	5950.00 \$	South Africa - Cape Town
Aug. 18, 2025	Aug. 22, 2025	5 days	4950.00 \$	UAE - Abu Dhabi
Oct. 27, 2025	Oct. 31, 2025	5 days	4950.00 \$	UAE - Dubai