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**Course Name**

# Python for Automation and SRE Essentials

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**Sector Name**

Information Technology

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## 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.

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## Python for Automation and SRE Essentials

### 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.

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## Python for Automation and SRE Essentials

### 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

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## Python for Automation and SRE Essentials

### 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

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## Python for Automation and SRE Essentials

### Course Outline

#### ✓ 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

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## Python for Automation and SRE Essentials

### Course Outline

#### ✓ 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

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## Python for Automation and SRE Essentials

### Course Outline

#### ✓ Day 04

##### **Lists, Dictionaries, and File Handling**

- ✓ Creating and manipulating lists and tuples
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## Python for Automation and SRE Essentials

### Course Outline

#### ✓ 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

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## Python for Automation and SRE Essentials

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 24, 2026	Aug. 28, 2026	5 days	4950.00 \$	UAE , Abu Dhabi
May 4, 2026	May 8, 2026	5 days	5950.00 \$	Switzerland , Zurich
Jan. 31, 2027	Feb. 4, 2027	5 days	4250.00 \$	KSA , Riyadh
Nov. 2, 2026	Nov. 6, 2026	5 days	4950.00 \$	UAE , Dubai

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