

Cloud Smart: Python Integrations with Google Cloud Services

Duration: 4 Days

COURSE OBJECTIVE

By the end of this course, participants will:

- Understand the core structure of Google Cloud and its API ecosystem
- Learn how to authenticate and securely access GCP and Google Workspace APIs
- Build real-world Python scripts for tasks like user management, storage, and automation
- Monitor and manage resources via programmatic access
- Deploy Python-based tools that interact with GCP services efficiently

COURSE OUTLINE

Day 1: Review Python

- Python Basics Refresher
- File Handling & CSV/JSON
- Python and HTTP Requests
- Python Modules for Google Cloud
- Exception Handling & Logging

Day 2: Foundations of Python + Google Cloud Integration

- Introduction to Google Cloud Platform & APIs
- Setting Up Python Environment for GCP
- First Integration – Google Admin SDK

Day 3: Core GCP Services + Advanced API Use

- Cloud Storage Integration
- Using BigQuery with Python
- Automating Tasks with Pub/Sub and Cloud Scheduler

Day 4: Real-World Scenarios + Automation

- Bulk Operations & Error Handling
- Monitoring & Reporting with Python
- Capstone Project

WHO SHOULD ATTEND

This course is ideal for:

- Python developers who want to expand into cloud-based integrations
- DevOps engineers aiming to automate GCP workflows
- Google Workspace admins who want to manage users and resources using Python
- Technical professionals working in IT automation or cloud-based infrastructure

COURSE GOAL

Equip developers and IT professionals with the skills to build real-world Python applications that integrate with Google Cloud Platform (GCP) services — from APIs to automation.