

Python Programming for Automation

COURSE OVERVIEW

In today's digital workplace, the ability to automate routine tasks is a superpower. This course provides a practical, hands-on introduction to Python, the world's most popular programming language, specifically tailored for automation. The course combines hands-on exercises with real-world projects to develop efficient, reliable automation solutions, enhancing productivity and enabling mastery of Python for a wide range of automation needs. Participants will learn to write scripts that interact with files, manage data, scrape web information, and control other applications, transforming tedious manual processes into efficient, automated workflows.

WHO SHOULD ATTEND?

This course is ideal for business analysts, administrators, operations staff, and other non-programming professionals who regularly handle repetitive digital tasks in spreadsheets, files, and web applications and want to dramatically boost their productivity by learning to automate these processes with Python.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Write and execute fundamental Python scripts to automate basic tasks.
- Automate file and folder management across your computer (e.g., renaming, sorting, organizing).
- Read from and write to various file formats including CSV, Excel, and PDFs for data processing.
- Extract data from websites and APIs using web scraping techniques.
- Automate interactions with emails and other desktop applications.
- Schedule scripts to run autonomously, ensuring your automations work in the background.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- The core principles of Python syntax and logic needed to build functional automation scripts.
- How to programmatically manage and manipulate files, folders, and directories on your computer.
- Techniques to automate data processing across common formats like CSV and Excel files.
- The fundamentals of web scraping to extract and collect data from websites automatically.
- Methods to control desktop applications and automate email workflows for communication tasks.
- How to implement error handling to make your scripts robust and reliable for continuous use.
- The process for scheduling scripts to run autonomously in the background, enabling true hands-free operation.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded