



PYTHON TRAINING

Learn Excel With Python Course

Automate Excel tasks and analyze data efficiently using Python. Unlock powerful data manipulation for enhanced reporting.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

Unlock a new realm of data analysis and automation by mastering the synergy between Microsoft Excel and Python in this intensive 2-hour intermediate course. Designed for Excel users who want to elevate their data handling capabilities, this course bridges the gap between traditional spreadsheet operations and powerful scripting. You will learn how to leverage Python's robust libraries, particularly Pandas, to programmatically read, write, manipulate, and analyze Excel data, transforming tedious manual tasks into efficient, automated workflows. This foundational knowledge empowers you to tackle larger datasets, perform complex calculations with ease, and generate sophisticated reports that are simply not possible with Excel alone. This certification will not only enhance your current data processing skills but also position you as a modern data professional capable of harnessing cutting-edge tools for business intelligence. By integrating Python into your Excel routine, you'll gain a significant competitive edge, allowing you to streamline operations, reduce errors, and derive deeper insights from your data.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Introduction to Python for Excel Users

- Setting up your Python environment (Anaconda/Jupyter Notebook)
- Basic Python data types and structures (lists, dictionaries, Pandas Series/DataFrames)
- Introduction to the Pandas library for data manipulation
- Understanding the benefits of Python over traditional Excel methods

02 Module 2: Reading and Writing Excel Files with Pandas

- Importing data from single and multiple Excel sheets (.xlsx, .xls, .csv)
- Handling headers, index columns, and specific ranges during import
- Exporting DataFrames to new and existing Excel files
- Controlling sheet names and write modes

03 Module 3: Data Cleaning and Transformation

- Identifying and handling missing data (NaN values) in DataFrames
- Renaming columns and manipulating text data
- Filtering, sorting, and grouping Excel data using Pandas
- Performing calculations and creating new columns based on existing data

04 Module 4: Automating Excel Workflows

- Automating report generation from raw Excel data
- Conditional formatting and styling Excel sheets with Python (using Openpyxl)
- Consolidating multiple Excel files into a single report
- Practical case study: Creating a dynamic sales summary report

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Financial Data Modeler (Automating financial reporting and forecasting with Python and Excel)**
- > **Business Intelligence Analyst (Enhancing data extraction, transformation, and loading processes for BI dashboards)**
- > **Data Automation Specialist (Developing scripts to automate repetitive data entry, cleaning, and report generation in Excel)**

FREQUENTLY ASKED QUESTIONS

Q: Do I need prior Python programming experience to take this course?

While this course is designed for intermediate Excel users, it assumes minimal to no prior Python experience. We will start with the fundamental Python concepts necessary for interacting with Excel, focusing on practical applications rather than theoretical programming. A basic understanding of data concepts is beneficial.

Q: What specific types of Excel tasks will I be able to automate after completing this 2-hour course?

Upon completion, you will be able to automate tasks such as reading and combining data from multiple Excel files, cleaning and transforming messy datasets programmatically, generating summary reports, applying basic conditional formatting, and performing complex calculations that are cumbersome in Excel alone. You'll gain a strong foundation to build more advanced automation scripts.

Q: How does learning Python for Excel compare to using advanced Excel formulas or VBA for automation?

Python offers superior power and flexibility compared to advanced Excel formulas, especially for large datasets and complex logic. While VBA (Visual Basic for Applications) is powerful for in-Excel automation, Python excels in data manipulation, integration with external systems, and machine learning, making it a more versatile tool for modern data professionals. This course will show you how Python can handle tasks that are difficult or impossible with traditional Excel methods.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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