

Introduction to Python Programming: Foundations & Basics

2027 000000 1 - 000000 27
London (UK)

UK Traininig

PARTNER





Day 3: File I/O and Error Handling

- Reading from and writing to files
- Working with CSV and JSON data
- Exception handling and debugging techniques
- Best practices for managing errors

Day 4: Object-Oriented Programming OOP

- Introduction to OOP concepts
- Creating classes and objects
- Inheritance, polymorphism, and encapsulation
- Abstraction and designing reusable code

Day 5: Practical Applications and Advanced Topics

- Working with external Python libraries
- Introduction to data analysis using pandas
- Basic web scraping techniques
- Final project and code review

Training Methodology

The course combines theoretical instruction with hands-on coding exercises to ensure practical learning:

- Guided coding exercises and programming challenges
- Real-world projects to reinforce concepts
- Interactive demonstrations and live coding sessions
- Peer collaboration and code review for continuous improvement

Beyond the Course

Participants will leave the program able to:

- Develop Python scripts to automate routine tasks.
- Build basic data analysis solutions using Python and pandas.
- Create simple web scraping tools to gather online information.
- Apply object-oriented programming to model real-world scenarios.
- Write clean, maintainable Python code and apply best practices for problem-solving.

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A graphic illustration of a chessboard with several chess pieces. In the foreground, a gold king piece stands prominently. Behind it, a silver pawn and a silver knight are visible. The board is checkered, and the background features a series of concentric, light gray circles.