Introduction to Python

Category: Software Development & Programming | **Vendor:** Various

Duration: 22.00 hours (3 days) **17.9 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The Introduction to Python course is designed for beginners with no prior programming experience. Participants will learn the fundamentals of Python, including syntax, data types, and control structures, while gaining hands-on experience with Jupyter Notebook and .py files. The course also introduces GUI creation within Jupyter Notebook. By the end, students will have the skills to write Python programs and develop simple applications. Python is widely used across industries for automation, web development, data science, and machine learning. This live, instructor-led course provides a structured, practical approach to learning Python, making it accessible for both new programmers and those transitioning from other languages. Note: Available in three full-day or five partial-day sessions. Check the schedule for options.

About This Course

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Who Should Attend

This course is ideal for both new programmers and experienced developers seeking to add Python to their skillset.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Participants will develop a strong foundation in Python by learning core concepts such as syntax, data types, control flow, and key data structures. They will apply Python to real-world use cases, including automation, web scraping, GUI development, and game design, allowing them to build a portfolio of practical projects. The course also covers advanced Python features such as object-oriented programming (OOP), decorators, generators, and modules, enabling students to write more efficient and scalable code. Additionally, they will gain hands-on experience with industry-standard tools, including Jupyter Notebooks, Python libraries, and integrated development environments (IDEs), to write, debug, and deploy Python applications professionally.

Detailed Course Outline

Lesson 1: Introduction to Python Programming

- What is Python?
- Setting up the Python environment
- Writing and executing Python scripts
- Introduction to Jupyter Notebook

Lesson 2: Python Basics

- Understanding Python syntax
- Working with variables and data types
- Input and output operations

Lesson 3: Control Structures

- Conditional statements (if, else, elif)
- Looping constructs (for, while)
- Error handling and debugging

Lesson 4: Working with Data Structures

- Lists, tuples, and sets
- Dictionary operations
- String manipulation

Lesson 5: Functions and Modular Programming

- Defining and calling functions
- Using parameters and return values
- Writing modular, reusable code

Lesson 6: Working with Files

- Reading from and writing to files
- File handling best practices

Lesson 7: GUI Development in Python

- Creating simple graphical user interfaces in Jupyter Notebook
- Introduction to libraries for GUI design

Lesson 8: Putting It All Together

- Developing a final project using the concepts learned
- Best practices for Python programming

Hands-On Labs

Throughout the course, participants will complete hands-on labs, including:

- *Writing basic Python scripts in Jupyter Notebook.*
- *Creating and manipulating data structures.*
- *Building simple GUI applications.*
- *Developing a mini-project as a capstone activity.*

Upcoming Schedule

Available training dates for Introduction to Python:

Start Date	End Date	Location	Delivery	Price
30 Nov 2026	02 Dec 2026	Online	Virtual	€1,795.00
16 Dec 2026	18 Dec 2026	Online	Virtual	€1,795.00
11 Jan 2027	13 Jan 2027	Online	Virtual	€1,795.00

Frequently Asked Questions

Q: What delivery options are available for Introduction to Python?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Introduction to Python course provides up to 17.9 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to Python training?

The training takes place over 3 day(s), with each day lasting approximately 22.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to Python?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to Python. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Introduction to Python?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to Python training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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