

Master Class: Advanced Python

(Associate Training)

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

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ★ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Building on the basic course, we will cover more advanced topics and use the special features in Python programming.

About This Course

1. Organizing and Structuring Projects in Python

- Virtual Python environment
- Version management

2. Modularisation

- Global modules
- Local modules
- Packages
- Importlib

3. Iterators

- Comprehension
- Chained lists
- Generators

4. Object-Oriented Programming in Python

- Classes and objects
- Access to attributes
- Inheritance

5. Naming Conventions and Best Practices

6. System Functions

- The modules os, sys, psutil
- Standard input and output
- Working with files

7. Working with Third-Party Packages

- Numpy
- Matplotlib
- Pandas
- Scipy
- etc.

8. Testing and Tuning

- Automated testing
- Logging
- Performance Analysis
- Optimization

9. Simple Web Applications with Python

- Django

10. Outlook Machine Learning with Python

11. Outlook Network Programming with Python

12. Python Hosting

- Program Distribution
- Python in SQL Server
- Python in Power BI

13. Programming Style, Best Practices

Who Should Attend

Entry-level Python developers who want to deepen their knowledge and skills and Python developers who want to make the step from script to application.

Prerequisites & Entry Requirements

General Prerequisites:

Previous course (!) or (!) or equivalent knowledge

Learning Outcomes

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

After this course you will be able to use Python in a deeper and more efficient way to develop more complex scripts or whole applications.

Detailed Course Outline

1. Organizing and Structuring Projects in Python (virtual environments, version management)
2. Modularisation (global/local modules, packages, importlib)
3. Iterators (comprehensions, chained lists, generators)
4. Object-Oriented Programming (classes, attributes, inheritance)
5. Naming Conventions and Best Practices
6. System Functions (os, sys, psutil, file I/O)
7. Working with Third-Party Packages (NumPy, Matplotlib, Pandas, SciPy)
8. Testing and Tuning (automated testing, logging, performance analysis)
9. Simple Web Applications with Python (Django)
10. Outlook Machine Learning with Python
11. Outlook Network Programming with Python
12. Python Hosting (distribution, Python in SQL Server/Power BI)

13. Programming Style, Best Practices

Skills You Will Learn:

After this course you will be able to use Python in a deeper and more efficient way to develop more complex scripts or whole applications.

Frequently Asked Questions

Q: What delivery options are available for Master Class: Advanced Python (Associate Training)?

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
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Q: How many CPD hours does this course provide?

The 3-day Master Class: Advanced Python (Associate Training) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Master Class: Advanced Python (Associate Training) training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Master Class: Advanced Python (Associate Training)?

Yes, we provide corporate training, dedicated training, and closed classes for Master Class: Advanced Python (Associate Training). 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: What related terms do people search for?

Popular related searches include: Master Class: Advanced Python (Associate Training), Python, PYTHON03

Q: Why choose Nexus Human for Master Class: Advanced Python (Associate Training)?

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 Master Class: Advanced Python (Associate Training) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

 Email: info@nexushuman.com

 Website: www.nexushuman.com

 Phone: +353 1 XXX XXXX (Ireland) | +44 20 XXXX XXXX (UK)