Introduction to Programming with Python (v1.01)

Category: Software Development & Programming | **Vendor:** Logical Operations

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Though Python has been in use for nearly thirty years, it has become one of the most popular languages for software development, particularly within the fields of data science, machine learning, artificial intelligence, and web development all areas in which Python is widely used. Whether you're relatively new to programming, or have experience in other programming languages, this course will provide you with a comprehensive first exposure to the Python programming language that can provide you with a quick start in Python, or as the foundation for further learning.You will learn elements of the Python 3 language and development strategies by creating a complete program that performs a wide range of operations on a variety of data types, structures, and objects, implements program logic through conditional statements and loops, structures code for reusability through functions, classes, and modules, reads and writes files, and handles error conditions.

About This Course

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Who Should Attend

This course is designed for people who want to learn the Python programming language in preparation for using Python to develop software for a wide range of applications, such as data science, machine learning, artificial intelligence, and web development.

Learning Outcomes

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

In this course, you will develop simple command-line programs in Python. You will:

Set up Python and develop a simple application.

Declare and perform operations on simple data types, including strings, numbers, and dates.

Declare and perform operations on data structures, including lists, ranges, tuples, dictionaries, and sets.

Write conditional statements and loops.

Define and use functions, classes, and modules.

Manage files and directories through code.

Deal with exceptions.

Detailed Course Outline

Lesson 1: Setting Up Python and Developing a Simple Application

- Topic A: Set Up the Development Environment
- Topic B: Write Python Statements
- Topic C: Create a Python Application
- Topic D: Prevent Errors

Lesson 2: Processing Simple Data Types

- Topic A: Process Strings and Integers
- Topic B: Process Decimals, Floats, and Mixed Number Types

Lesson 3: Processing Data Structures

- Topic A: Process Ordered Data Structures
- Topic B: Process Unordered Data Structures

Lesson 4: Writing Conditional Statements and Loops in Python

- Topic A: Write a Conditional Statement
- Topic B: Write a Loop

Lesson 5: Structuring Code for Reuse

- Topic A: Define and Call a Function
- Topic B: Define and Instantiate a Class
- Topic C: Import and Use a Module

Lesson 6: Writing Code to Process Files and Directories

- Topic A: Write to a Text File
- Topic B: Read from a Text File
- Topic C: Get the Contents of a Directory
- Topic D: Manage Files and Directories

Lesson 7: Dealing with Exceptions

- Topic A: Handle Exceptions
- Topic B: Raise Exceptions

Additional Course Details

Nexus Humans Introduction to Programming with Python (v1.01) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Introduction to Programming with Python (v1.01) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Introduction to Programming with Python (v1.01)?

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 2-day Introduction to Programming with Python (v1.01) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to Programming with Python (v1.01) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to Programming with Python (v1.01)?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to Programming with Python (v1.01). 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 Programming with Python (v1.01)?

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 Programming with Python (v1.01) 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

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