Python for Everyone / Getting Started with Python and Scripting Basics for Non-Developers (TTPS4803)

Category: Software Development & Programming | **Vendor:** Trivera Tech

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Getting Started with Programming Basics and Python®is a hands-on course that teaches students from non-development backgrounds the basics of programming and scripting, using Python. This course gently leads through programming essentials, working through the fundamentals of writing and running Python scripts to more advanced features such as file operations, regular expressions, working with binary data, and using the extensive functionality of® Python modules.

About This Course

Python is one of the most versatile, popular programming languages in use today. You can leverage Python in almost every industry, in a wide array of applications from system administration to machine
learning, from automation to web services, from data analysis to visual effects. Compared to other programming languages, Python is relatively easier to learn and use, providing a wide variety of opportunities for students of all skill levels and roles.

Getting Started with Python for Non-Developers is a hands-on course that teaches students from non-development backgrounds the basics of programming and scripting, using Python. This course gently
leads through programming essentials, working through the fundamentals of writing and running Python
scripts to more advanced features such as file operations, regular expressions, working with binary data,
and using the extensive functionality of Python modules.

This course provides an excellent kick start for users new to Python and scripting, enabling them to use
basic Python skills on the job in a variety of ways. Students can apply the course skills to use Python in
basic web development projects or automate or simplify common tasks with the use of Python scripts. The
course also serves as a solid primer course / foundation for continued Python study in support for next
level web development with Python, Python for data science / machine learning or Python for systems admin or networking support.

Who Should Attend

This basic level course provides an excellent kick start for users new to
Python and scripting, enabling them to use basic Python skills on the job in a variety of ways. You'll be able to these skills to use Python in basic web development projects or automate or simplify common tasks with the use of Python scripts. Although you don't need programming skills to attend, it's
recommended that your current role is within a somewhat technical framework. Please see the pre-requisites below for details.

Prerequisites & Entry Requirements

General Prerequisites:

This basic level course provides an excellent kick start for users new to Python and scripting or programming, enabling them to use basic Python skills on the job in a variety of ways. This in a basic-level Python course geared for student who are new to Software Development and use Python in projects, or system administrators and web site administrators who want to use Python to support their server installations, as well as anyone else who wants to automate or simplify common tasks with the use of Python scripts.

Before attending this course, students must have:

-Ability to use computers to start programs, open and save files, navigate application menus and interfaces

-Ability to understand logical concepts such as comparisons

-Understand number theory

-Ability to create, understand, and follow structured directions or step-by-step procedures

-Ability to understand and apply abstract concepts to concrete examples

Learning Outcomes

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

This course combines expert lecture, real-world demonstrations and group discussions with machine-based
practical labs and exercises. Our engaging instructors and mentors are highly experienced practitioners
who bring years of current "on-the-job" experience into every classroom. Throughout the hands-on course, you'll learn to write essential Python scripts using the most current and efficient skills, best practices and techniques.
Working in a hands-on learning environment, guided by our expert team, you'll learn to:
-Thinking as a Software Developer, including coding logic and structures
-Create working Python scripts following best practices
-Use python data types appropriately
-Read and write files with both text and binary data
-Search and replace text with regular expressions
-Get familiar with the standard library and its work-saving modules
-Create "real-world", basic level professional Python applications
-Know when to use collections such as lists, dictionaries, and sets
-Understand Pythonic features such as comprehensions and iterators
-Write robust code using exception handling

Detailed Course Outline

An Overview of Software Development

Thinking as a developer

Pseudocode as a design tool

Analysis €œ Understanding the problem

Design €œ creating the solution

Let's Get Hands-On: Scripting and programming basics

An Overview of Python

What is python

Python Timeline

Advantages/Disadvantages of Python

Getting help with pydoc

Python Quick View

What is Python

Python timeline

Advantages/disadvantages

Installing Python

Getting help

The Python Environment

Starting Python

Using the interpreter

Running a Python script

Editors and IDEs

Getting Started with Python

Using variables

Builtin functions

String data

Numeric data

Converting types

Console input/output

Command line parameters

Flow Control

About flow control

The if statement

Relational and Boolean operators

while loops

Exiting from loops

Array types

About array types

Lists and list methods

Tuples

Indexing and slicing

Iterating through a sequence

Sequence functions, keywords, and operators

List comprehensions and generators

Working with files

File overview

Opening a text file

Reading a text file

Writing to a text file

Dictionaries and Sets

About dictionaries

Creating dictionaries

Iterating through a dictionary

About sets

Creating sets

Working with sets

Functions

Defining functions

Returning values

Parameters and arguments

Variable scope

Sorting

The sorted() function

Custom sort keys

Lambda functions

Sorting in reverse

Using min() and max()

Errors and Exception Handling

Exceptions

Using try/catch/else/finally

Handling multiple exceptions

Ignoring exceptions

Modules and packages

Creating Modules

The import statement

Module search path

Using packages

Function and module aliases

Getting Started with Object Oriented Programming and Classes

About object-oriented programming

Defining classes

Constructors

Understanding self

Properties

Instance Methods and data

Class methods and data

Inheritance

Additional Course Details

Nexus Humans Python for Everyone / Getting Started with Python and Scripting Basics for Non-Developers (TTPS4803) 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 Python for Everyone / Getting Started with Python and Scripting Basics for Non-Developers (TTPS4803) 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 Python for Everyone / Getting Started with Python and Scripting Basics for Non-Developers (TTPS4803)?

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 4-day Python for Everyone / Getting Started with Python and Scripting Basics for Non-Developers (TTPS4803) course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Python for Everyone / Getting Started with Python and Scripting Basics for Non-Developers (TTPS4803) training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Python for Everyone / Getting Started with Python and Scripting Basics for Non-Developers (TTPS4803)?

Yes, we provide corporate training, dedicated training, and closed classes for Python for Everyone / Getting Started with Python and Scripting Basics for Non-Developers (TTPS4803). 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: Python

Q: Why choose Nexus Human for Python for Everyone / Getting Started with Python and Scripting Basics for Non-Developers (TTPS4803)?

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 Python for Everyone / Getting Started with Python and Scripting Basics for Non-Developers (TTPS4803) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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