COURSE OVERVIEW

Course Name:
(55284) Introduction to Python

COURSE DURATION: 4 Days

Gauteng:
3rd Floor, 34 Whitely Road
Melrose Arch
Johannesburg
2196

Gauteng:
192 on Bram
192 Bram Fischer Drive
Ferndale, Randburg
Johannesburg
2160

Cape Town:
3rd Floor, Thomas Pattullo Building
19 Jan Smuts St
Cape Town
8000

Durban:
9 Mountview Close
Broadlands
Mount Edgecombe
Durban
4302

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INTRODUCTION

In this Python training course, students learn to program in Python. The course is aimed at students new to the language who may or may not have experience with other programming languages. The course was written using Python 3.8, but is relevant for all students using Python 3.

DELIVERY METHOD

Our courses have flexible delivery options:
- In-person classroom training at the Impactful training facilities
  - Johannesburg, Durban, Cape Town
- Virtual instructor-led training
- Nationally: on-site at the client

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INTENDED AUDIENCE

The course is aimed at students new to the language who may or may not have experience with other programming languages. The course was written using Python 3.8, but is relevant for all students using Python 3.

PREREQUISITES

There are no prerequisites but some programming experience is helpful.

COURSE CONTENT

At course completion, students will have the skills and knowledge to:

- Understand how Python works and Python's place in the world of programming languages.
- Work with Python literals and comments.
- Work with variables and Python data types.
- Work with simple modules.
- Output data with print().
- Collect user input.
- Define and call functions.
- Work with parameters and arguments.
- Use variable scope.
- Create and import modules.
- Use math in Python.
- Work with the math and random modules.
- Work with string basics.
- Work with special characters.
- Work with multi-line strings.
- Index and slice strings.
- Work with common string operators and methods.
- Format strings.
- Use built-in string functions.
- Work with lists, tuples, ranges, dictionaries, and sets.
- Work with the *args and **kwargs parameters.
- Work with virtual environments.
- Install packages with pip.
- Work with conditions and loops.
- Work with generator functions.
- Work with list comprehensions.
- Work with exception handling.
- Work with the time and datetime modules.
- Work with files and directories.
- Work with the os and os.path modules.
- Work with PEP8 and Pylint.

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