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YOUR COURSE, YOUR WAY - MORE EFFECTIVE IT TRAINING

Python Programming

Duration: 3 days

Overview:

Python is an Object Oriented rapid development language deployed in many scenarios in the modern world.

This Python Programming course is designed to give delegates the knowledge to develop / maintain Python scripts using the current version of Python.

There are many similarities between Python V2 and Python V3 so the skills gained on this course will allow the delegate to develop their own skills further using Python V2 or V3 to support the maintenance of scripts.

Prerequisites:

Attendees should be familiar with the Concepts of Programming.

Topics:

1 - Introduction to Python

What is PYTHON and why PYTHON is useful

Installing Python

The IDLE editor

A simple PYTHON Program.

2 - Python Basics

How to run PYTHON programs on UNIX and Windows platform

Lines and Indentation

Multiple line Statements

Quotation Marks

Reserved Words in Python

Python Suites

Input

Output

Working with Files

3 - Python Variables Assignments Data Types Numbers Strings Lists **Tuples** Dictionaries 4 - Python Operators Arithmetic Operators Comparison Operators Assignment Operators Bitwise Operators Logical Operators Membership Operators **Identity Operators** Operator Precedence 5 - Conditional and control statements If Else Elsif constructs While and For Loops Iteration 6 - unctions Creating Functions Def Statement Calling functions Scoping variables Passing arguments 7 - Modules What is a module Standard modules How to define and code a module Using import Argument passing and return values from a module 8 - Pattern Matching

The re module		
How pattern matching works		
Pattern matching operators		
Pattern matching special characters		
Pattern matching options		
Pattern substitution		
Pattern tagging		
Translation		
9 - Python OO		
Why use OO		
Creating a simple class		
Inheritance		
Passing data into a class		
More complex classes		
10 - Exceptions		
What are exceptions		
Default Handler		
Catch/Try/Raise Statements		
Class Based Exceptions		
What Not To Do		
11 - Working with databases		
Python and Databases		
Connecting to MySQL Database		
Working with tables /Records		

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