

Asha S. P. B.E(Instrumentation),PGDIT,ITIL V3

Freelance Technical Trainer

Previously associated with: Nokia Solutions Networks

Online/Classroom/Corporate Training

IT Exp:13+ years

Industries: Telecom, Software Testing & Automation using Shell, Perl & Python scripting

Trained more than 100 students

Onsite worked: Finland

Asha S.P. Mob:9845899438 Email:ashasp04@gmail.com skype:ashasp04

- Online courses :**
- 1) **Unix Basic (user level) commands**
 - 2) **Shell Scripting with sed & awk**
 - 3) **Perl**
 - 4) **Python Scripting**

- High lights :**
- 1) **Real time examples**
 - 2) **Trouble shooting tips**
 - 3) **Excellent course material**
 - 4) **Hands-on LAB exercises**
 - 5) **Interview questions and tips**

Python

Duration : 20 Hours (weekdays)

Pre-requisite : knowledge of a programming language like 'C'

Knowledge of OO language like C++ or Java preferable

Course contents

An Introduction to Python

- 1) Introductory Remarks about Python
- 2) Strengths and Weaknesses
- 3) A Brief History of Python
- 4) Python Versions
- 5) Installing Python
- 6) Environment Variables
- 7) Executing Python from the Command Line
- 8) IDLE
- 9) Editing Python Files
- 10) Getting Help
- 11) Dynamic Types
- 12) Python Reserved Words
- 13) Naming Conventions

Basic Python Syntax

- 1) Basic Syntax
- 2) Comments
- 3) String Values
- 4) String Operations
- 5) The format Method
- 6) String Slices
- 7) String Operators
- 8) Numeric Data Types
- 9) Conversions
- 10) Simple Input and Output
- 11) The print Function

Language Components

-
- 1) Control Flow and Syntax
 - 2) Indenting
 - 3) The if Statement
 - 4) Arithmetic operators
 - 5) Assignment operators
 - 6) Relational Operators
 - 7) Logical Operators
 - 8) True or False
 - 9) The while Loop
 - 10) break & continue statement
 - 11) For loop

Collections

- 1) Introduction
- 2) Lists
- 3) Tuples
- 4) Sets
- 5) Dictionaries
- 6) Sorting Dictionaries
- 7) Copying Collections

Functions

- 1) Defining Your Own Functions
- 2) Parameters
- 3) Function Documentation
- 4) Keyword and Optional Parameters
- 5) Passing Collections to a Function
- 6) Variable Number of Arguments
- 7) Scope
- 8) Passing Functions to a Function
- 9) Mapping Functions in a Dictionary
- 10) Lambda

Modules

- 1) Standard Modules - sys
- 2) Standard Modules - math
- 3) Standard Modules - time
- 4) The dir Function

Exceptions

- 1) Errors
- 2) Run Time Errors
- 3) The Exception Model
- 4) Exception Hierarchy
- 5) Handling Multiple Exceptions
- 6) raise
- 7) assert
- 8) Writing Your Own Exception Classes

Input output

- 1) Data Streams
- 2) Creating Your Own Data Streams
- 3) Access Modes
- 4) Writing Data to a File
- 5) Reading Data From a File
- 6) Additional File Methods
- 7) Using Pipes as Data Streams
- 8) Handling IO Exceptions
- 9) Working with Directories
- 10) Metadata

Classes in Python

- 1) Classes in Python
- 2) Principles of Object Orientation
- 3) Creating Classes
- 4) Instance Methods
- 5) File Organization
- 6) Special Methods
- 7) Class Variables
- 8) Inheritance
- 9) Polymorphism
- 10) Type Identification
- 11) Custom Exception Classes

Regular Expression

- 1) Simple Character Matches
- 2) Special Characters
- 3) Character Classes
- 4) Quantifiers
- 5) The Dot Character
- 6) Greedy Matches
- 7) Grouping
- 8) Matching at Beginning or End
- 9) Match Objects
- 10) Substituting
- 11) Splitting a String
- 12) Compiling Regular Expressions

Asha S.P. Mob:9845899438 Email:ashasp04@gmail.com skype:ashasp04