

ISA Software Skillnet is the National Training Network for the Software and Digital Technology Sector.

# Scripting a Robot framework utilizing Python

## Course Overview

Start Date	14th July 2014	Duration	3
Location	Dublin	Course Code	SS894

## Programme Overview

This 3 day course is aimed at engineers who need to create, edit and maintain scripts in a mature Robot framework utilizing Python.

The focus is on clarifying the logic of the script development so that the participant gains clarity on how to implement them in Python on a test automation framework for acceptance testing and acceptance test-driven development (ATDD).

## Course Objectives

- Provide a solid understanding of Python, its scope and applications
- Understand the logic of scripts created in Python
- Be able to edit existing and create new scripts on a mature Robot framework utilizing Python
- Give participants the skills to generate libraries in order to assist in testcase generation

## Certification

N/A

## Course Content

### Language Fundamentals:

- Command-Line Interpreter
- Integer, Float, Strin
- Basic operations (=, +, \*, -, /, %
- Type conversations
- Equality

### Python Scripting:

- Running a Python script
- Providing command-line arguments
- Syntax and indentation
- List operations: creating, slicing, iteratin
- Range operation
- String operations

### Modules and Functions

- Running a main routine in module
- Calling a function from main
- Calling a function from another module
- Comments (#)
- Different forms of impor
- PYTHONPATH
- Calling functions with default arguments

## CONTACT US

To request further information on this course or other programmes

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**Flow of Control:**

- For and While loops
- Conditionals (if)
- Exception handling

**Advanced Data Objects:**

- Creating and using tuple data object
- Creating and using dictionary data object
- References and copies (id, copy)
- Type
- Built-in operators (dir)

**Input/Output:**

- Reading from and writing to console (%)
- Reading from and writing to file
- The String Module
- Module documentation (pydoc)

**Useful Modules:**

- Randomization whrando
- Time/Date tim
- os, os.path
- Mathematics math
- thread
- glob
- unittest
- StringIO

**Object-Oriented Python:**

- Classes and object
- Overriding built-in methods
- Inheritance and polymorphism
- Advanced Parsing:
- Regular Expressions (re)

**Useful Idioms and Shortcuts:**

- Map
- lambda
- reduce
- type conversations

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