



### Program Overview (Certified Industrial Computer Programmer – PYTHON)

Python is world's most stable and most popular programming language used by software engineers, analysts, data scientists, and machine learning engineers alike.

The course provides a hands-on introduction to the Python language covering object-oriented and functional programming techniques. The programming language Python serves a broad application domain ranging from short scripts to full-blown software systems (e.g. Google uses C++, R, Java and Python). The course gives an introduction to libraries of available components, and how to use these for building your own software.

#### Course Objective

This program designed to focus on **“SMART”** application process.

##### Specific

Understanding the specific skills for Programming using **“Python”**

##### Measurable

Develop self-improvement with latest **“Python Libraries”** tools and technique to be more cost effective and impact of Content Marketing

##### Action

Confident in handling **“Arduino controller”** and **“Raspberry Pi”** data processing and prepared to deal with complex data handling.

##### Realistic

Realization with **“Realistic Applications”**. Increase saving and reduce the losses.

##### Time Frame

Able to make **“Right Applications”** on right time

#### Learning Outcome

The learning outcome of the program according to **“ADDIE”**s process

- Analysis- Python Statistical Data Analysis
- Design- Design Arduino and Raspberry Pi
- Development – Develop IoT Devices.
- Implementation-Improves programming ability.
- Evaluation - Evaluate IoT Device communication

#### Who Should Attend

Programme Analyst, Software Engineers

#### Program Course Content

##### Day 1

Overview of Python Industrial Programming

##### Day 2

Data in Cart

##### Day 3

Describing Objects and Classes

##### Day 4

PYTHON programming for Arduino controller

##### Day 5

Python programming and the Raspberry Pi

*Case Studies*

*Open Book Examination & On-line Examination*

#### Training Activity / Methodology:

This program places heavy emphasis on experimental learning and delivered through:

Lecture, Role Play, Practical Exercise, Cases Studies, Video Presentation, Training Games and etc.

