PYTHON FOR FINANCE

Course Agenda

Course duration	36 hours
Class duration	4.5 hours (including 30 minutes lunch break)
Delivery mode	Classroom instructor-led
Number of classes	8
Time of class	10 am – 2:30 pm
Trainer	Mr. Hudson Mbong

MODULE 1: PYTHON ESSENTIALS I				
Day	Main Topics	Sub-topics	Duration (hrs)	
1	Introduction to Python and Computer Programming	 Absolute basics Compilation vs Interpretation Why Python Installing Python 	1.5	
	Data Types, Variables, Basic I/O Operations, Basic Operators	 Python Literals Arithmetic Operators and Hierarchy of Priorities Variables Comments The input () function 	2.5	
	Total break duration		0.5	
2	Boolean Values, Conditional Execution, Loops, Lists. Logical and Bitwise Operators	 Comparison Operators Conditional Execution Logic and Bit operations Lists List Processing Multidimensional Arrays 	4	
	Total break duration		0.5	
3	Functions, Tuples, Dictionaries, and Data Processing	 Functions Function Parameters and Argument Passing Returning Results from Functions Functions and Scopes Creating Simple Functions Tuples and Dictionaries 	4	
	Total break duration		0.5	



Mauritius

info@cyberskills.mu cyberskills.mu

	MODULE 2: PYTH	ON ESSENTIALS II	
	Modules, Packages and PIP	 Importing and using Python modules; using some of the most useful Python standard library modules Constructing and using Python packages; PIP (Python Installation Package) and how to use it to install and uninstall ready-to-use packages from PyPI. 	2
4	Strings, String and List Methods, Exceptions	 Characters, strings and coding standards Strings vs. lists – similarities and differences Lists methods String methods Python's way of handling runtime errors Controlling the flow of errors using try and except Hierarchy of exceptions. 	2
	Total break duration		0.5
5	Object-Oriented Programming	 Basic concepts of object-oriented programming (OOP) The differences between the procedural and object approaches (motivations and profits) Classes, objects, properties, and methods Designing reusable classes and creating objects Inheritance and polymorphism Exceptions as objects. 	4
	Total break duration		0.5
6	Miscellaneous	 Generators, iterators and closures Working with file-system, directory tree and files Selected Python Standard Library modules (os, datetime, time, and calendar.) 	4
	Total break duration		0.5
	MODULE 3: PYTH	ION IN FINANCE	
7	Real life exercises for Python in Finance	 Basic file/directory automation Build solutions to automate repetitive tasks for financial audit and share them with your finance 	4



Mauritius

info@cyberskills.mu cyberskills.mu

		colleagues to improve their productivity	
	Total break duration		0.5
8	Real life exercises for Python in Finance	 Basic automation of tables in Excel Using cron jobs (Windows Schedular) to automatically run Python jobs on a regular basis Using Pandas to extract data from PDF files 	4
	Total break duration		0.5



Freeport Zone 5 Mer Rouge Mauritius info@cyberskills.mu cyberskills.mu