

Details Course Outlines

Module-01

PYTHON – Beginner to Maestro

- ✓ Syntax and Integrated Development Environment
- ✓ Operators and Operands
- ✓ Control structures, Loops and Loop Controls
- ✓ Functions and Modules
- ✓ In-built Data Structures
- ✓ Functional programming
- ✓ Decorator and Generator
- ✓ Regular Expressions
- ✓ Object Oriented Programming(OOP) concept from a Developer, made VERY EASY
- ✓ File and Exceptional Handling
- ✓ Logic building sessions and Doubt sessions
- ✓ Important interview topics covered and more questions to practice than you can handle
- ✓ Advanced :: Multithreading/Logging/Garbage collection

Module-02

Libraries for CLI automation

- ✓ Scripting practice using the open libraries available
- ✓ Paramiko
- ✓ Netmiko
- ✓ Napalm
- ✓ Telnetlib
- ✓ Creating your own Module !

Module-03

Data serialization and libs

- ✓ json
- ✓ yaml
- ✓ xml
- ✓ Related libraries and how to use them

Module-04

REST-API and Tools

- ✓ HTTP and its terminologies
- ✓ HTTP CRUD and ERROR codes
- ✓ API
- ✓ REST
- ✓ Curl
- ✓ Postman
- ✓ Requests library

Module-05

ANSIBLE

- ✓ Basics of Linux environment
- ✓ Ansible components
- ✓ Hosts/inventory and .cfg
- ✓ Ad-hoc and modules
- ✓ Jinja templating
- ✓ Automate everything you can think of, using PLAYBOOKS !!

Module-06

DEVNET World

- ✓ A whole course in itself, summarized to ease your way into it
- ✓ Fork an official CISCO code repository(GIT Basics included)
- ✓ NETCONF
- ✓ RESTCONF
- ✓ YANG
- ✓ Using the tools above to "CRUD" configurations on the devices
- ✓ Software Development and Design

Module-07

Cisco Devices Programmability Options

- ✓ IOS XE
- ✓ NX-OS
- ✓ ACI
- ✓ UCS