



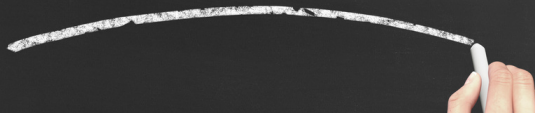
## **CORE NETWORKING CLASSES**

**GET TRAINING BY  
CERTIFIED TRAINERS  
AND INDUSTRY  
EXPERTS**



# **JOIN US**

## **OVERVIEW**



**Training Type**  
Online

**Course Duration**  
1 Month

**No of Hours**  
2 Hours/Day

**Certificate**  
Devnet Associate

**Skill Level**  
Begginer

**Study Material**  
Yes

**Batches Available**  
Weekdays/Weekends

## **BE EXPERT IN DEVNET ASSOCIATE**



## **DEVNET ASSOCIATE**

**START YOUR  
LEARNING WITH  
CORE  
NETWORKING  
CLASSES**



## **COURSE CONTENT**

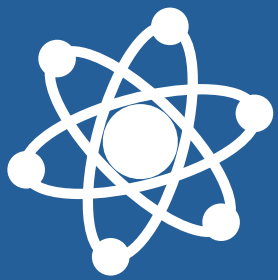
- **Introduction to Fundamental Python programming**
- **Introduction to Software-Defined Networking (SDN)**
- **Python data structure**
- **Using Python to read from and write to a file**
- **Python loops and conditional code**
- **GitHub**
- **Programming Python Functions**
- **Python Libraries, Packages, and Modules**

- **GitHub**
- **Programming Python Functions**
- **Python Libraries, Packages, and Modules**
- **Integrated Development Environments**
- **Python code analysis and error handling**
- **Configuring IOS Devices using NETMIKO**
- **Cisco-supported APIs and automation protocols**
- **Introduction to Network-Based APIs**
- **Consuming REST-Based APIs**
- **Modern Driven Programmability with YANG**
- **Cisco ASA REST API**
- **Cisco IOS XE RESTCONF API**
- **Cisco IOS XE NETCONF API**
- **Cisco Nexus NX-OS APIs**
- **Introduction to NAPALM**

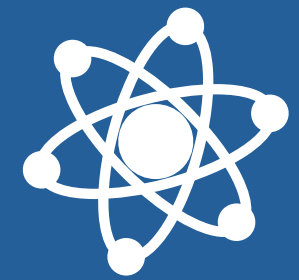
## **KICKSTART YOUR CAREER IN NETWORK AUTOMATION WITH DEVNET ASSOCIATE TRAINING**

- **Introducing Modern Software Development**
- **Version Control System (VCS)**
- **Introduction to Ansible**
- **Software Requirement for Ansible**
- **Understanding the Architecture & File Structure of Ansible**
- **Comparing Ansible with Standard Network Automation**
- **Working with Playbook and Tasks in Ansible**





# LABS TO BE COVERED



- Practice the effects of fundamental Python commands
- 2. Program Python data structure
- 3. Create Python scripts to interact with files
- 4. Write scripts to demonstrate Python loops and conditional code
- 5. Create a Python script
- 6. Share files using Git and GitHub
- 7. Write Python Functions
- 8. Write Python code of Modules and Packages
- 9. Implement Python code in IDEs
- 10. Debug and test Python code
- 11. Parse API Data Formats with Python
- 12. Deploy Configurations on IOS devices using Telnetlib, Netmiko, Paramiko
- 13. Inspect HTTP Protocol Messages
- 14. Create, execute, and validate a Python script with an IDE
- 15. Explore and validate automation protocols
- 16. Perform a configuration change on an IOS XE device with the RESTCONF API
- 17. Perform a configuration change on an IOS XE device with the NETCONF API
- 18. Perform a configuration change on an ASA device with the REST API
- 19. Use Postman for deploying configuration on ASA-OS
- 20. Troubleshoot existing Python scripts with an IDE
- 21. Use Git for Version Control
- 22. Creating Ansible .cfg, hosts, and inventory Files
- 23. Creating and Executing Ansible Playbook for IOS Show commands
- 24. Backing up IOS Configuration using Ansible
- 25. Deploying Configuration using Ansible on Network Devices