CORE NETWORKING CLASSES

GET TRAINING BY CERTIFIED TRAINERS AND INDUSTRY EXPERTS

JOIN US

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

CISCO CERTIFIED DEVNET Associate

DEVNET ASSOCIATE

START YOUR LEARNING WITH CORE NETWORKING CLASSES

KICKSTART YOUR CAREER IN NETWORK AUTOMATION WITH DEVNET ASSOCIATE TRAINING

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
- 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