

**Day - 1**

- **Work from a Red Hat Enterprise Linux command line environment**

- Use a text editor to create and modify files
- Run commands from the shell
- Use SSH to log in to remote systems

- **Work with Git and perform basic Git operations**

- Clone a Git repository
- Add files to a Git repository
- Upload changes to a remote Git repository
- Perform simple Git customizations

- **Configure Ansible**

- Customize the configuration file
- Configure the connection method
- Configure authentication details
- Verify the configuration

- **Run Ansible commands and playbooks**

- Execute Ansible ad hoc commands
- Create Ansible playbooks
- Modify existing Ansible playbooks

- **Use standard Ansible constructs**

- Work with variables
- Loop over a list of IP addresses
- Perform conditional tests
- Manipulate data with filters
- Control playbook execution with tags
- Work with templates
- Use registers to capture the output of a task
- Use Ansible vault to secure sensitive information

- **Work with Ansible roles**

- Use an existing role
- Create a new role.

## Day - 2

- **Automate network device management**

- Gather facts about devices and systems
- Configure routers, switches and ports
- Configure OSPF
- Configure BGP
- Configure VLANs
- Create a multi-play playbook to back up a device configuration
- Configure devices to use syslog and SNMP

- **Use Ansible Tower**

- Create credentials
- Create organizations, users and teams
- Create a dynamic inventory
- Create a project from a Git repository
- Create a job template
- Create a survey

- **Deploy Ansible**

- Install Ansible and create Ansible inventories.

- **Run commands and plays**

- Execute ad hoc commands and prepare Ansible playbooks.

## Day - 3

- **Parameterize Ansible**

- Control tasks with loops and conditions.

- **Administer Ansible**

- Safeguard information with Ansible Vault and manage inventories.

- **Automate simple network operations**

- Gather network information with Ansible and configure network devices.

- **Automate complex operations**

- Solve new MACD challenges and overcome real-world challenges.