

Course key concepts

1. Networking

1. Networking Fundamentals
2. IPv4 Routing Overview
3. IPv6 Overview
4. Layer 2 Technologies Overview
5. Layer 3 Routing Overview
6. Open Shortest Path First (OSPF)
7. BGP
8. Services

2. Systems

1. Windows Server Fundamentals
2. Windows Server DNS & DHCP Services
3. Storage Solutions
4. Active Directory, Group Policies
5. Linux Fundamentals
6. Linux Server DNS, DHCP, Mail
7. Linux Security

3. Virtualization

1. Virtualized Servers Fundamentals
2. Virtual Machine Management
3. Configuring and Managing Virtual Networks and Virtual Storage

4. Automation

1. Python Programming
2. Automation Fundamentals
3. Automation Tools & Environments
4. Python Programming for Network Automation

Expected Results from Academy Program

Successful Candidate should be able to engage responsibilities below:

- Install and configure network equipment
- Network design and implementation
- Install and support LANs, WANs, network segments, Internet, and intranet systems
- Perform network address assignment, assign routing protocols and routing table configuration
- Maintain network connectivity of all computer workstations
- Analyze, troubleshoot and isolate issues
- Provide network support with a variety of operating systems
- Maintain servers and associated hardware, applications, services, and settings
- Develop and monitor policies for the use of network resources
- Monitor network performance (availability, utilization, throughput, goodput, and latency) and test for weaknesses
- Building and maintaining Virtual Machines, maintaining Virtual infrastructure, and providing technical support
- Able to understand and adapt automation scripts into integrated networking system
- Program and develop new automation scripts based on various network requirements, tasks or application responses
- Update programs and schedule responses for automating repetitive system and networking tasks
- Modify automation scripts for performing regular updates of systems, security checks and update rollouts
- Create technical design documentation for systems and applications.