

Course Name : IPv4 Network Administrator Training  
Duration : 2 Days  
Skill Level : Beginner

#### Course Description :

In this session, participants will learn IP addressing, Sub-netting, Route Summarisation, Access control, Common Network equipment, basic Router administrative commands, configuring Router interfaces, planning a Network infrastructure and many other topics that are important and needed, not just for certification purposes, but also for real world scenarios.

#### DAY 1 | MODULE 1

- Welcome
- What you need to know?
- OSI & TCP/IP Model
- What is IPv4
- Class Type of IPv4 and Subnet Mask
- Public IP address and Private IP address
- Moving from Classful to Classless IPv4
- Broadcast Domain and Collision Domain
- IP subnet-ting
- IP subnet-ting Practice
- What is a Gateway
- Router Interface Configuration
- ARP (Address Resolution Protocol)
- Routing Table
- Basic Configuration
- DHCP Dynamic IP Assignments
- Configure a DHCP Server Using Router

#### DAY 2 | MODULE 2

- Introduction
- What is FTP Server
- Passive Mode and Active Mode
- Set up a FTP Server using Router
- NSLookup
- Public DNS
- DNS Forwarding using Router
- Network Switch
- LAN (Local Area Network)
- VLAN (Virtual Local Area Network)
- Inter-VLAN Routing
- Lab for a Complete Office Network

#### DAY 2 | PRACTICAL SESSION

- Router Installation
- Router Configuration
- Router Troubleshooting
- Switch Installation
- Switch Configuration
- Switch Troubleshooting

#### CONCLUSION

- QA
- Useful Resources
- Feedback