

Course Code - NET15005

Networking and Systems

This 3-Day Course introduces Cisco IOS (Internetwork Operating System). Delegates will learn the basic features and functions and complete practical exercises using Cisco Routers and Switches.

Delegates will learn the Cisco IOS structure and practice the use of management commands as well as those associated with global router and switch parameters such as IP addressing, MAC Address management, LAN and WAN services and security configuration such as Access Control Lists (ACLs) on routers and Port Security on switches.

It is not always necessary for staff to complete a full Cisco Certification course such as an CCNA when they are only performing limited tasks on Cisco routers and switches. This course will provide the basic skills to be able to configure, monitor and maintain small to medium sized routers and switches

Prerequisites:

It would be helpful if delegates do have a basic knowledge of data networking, but this is not essential.

Aim:

To give delegates the basic skills and confidence to configure, monitor and maintain Cisco routers and switches.

Objectives

On completion of this course delegates will be able to:

- Determine the appropriate use for Cisco Routers and Switches
- Manipulate Cisco IOS through the Command Line Interface to configure and verify global parameters, interfaces, protocols and connections.
- Interconnect and configure Cisco IOS-Based routers and switches to set up LAN and WAN Services.
- Use Cisco IOS to back up configuration files to disk and a network server.
- Use Cisco IOS to monitor and maintain routers and switches.

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Course Outline

- Make a physical connection to the Catalyst Switch and Router Console port.
- Provide the switch and router with the appropriate Password Protection.
- Understand Catalyst Switch startup procedures.
- Understand the makeup of MAC Address Tables.
- Configure basic Port Security on a 2950 Catalyst Switch.
- Configure FastEtherchannel Trunks.
- Configure Speed and Duplex settings.
- Understand the principles of a Virtual Local Area Network (VLAN).
- Configure a Cisco 2950 Catalyst switch for static VLAN operation.
- Configure IEEE 802.1q VLAN Trunks.
- Configure a Cisco Router for LAN and WAN services
- Managing configuration files and IOS images.
- Configuring and managing RIPv1
- Configuring and managing RIPv2
- Configuring single area OSPF.
- Configuring multiple area OSPF.
- Configuring EIGRP.