



Interconnecting Cisco Network Devices Part 1 (ICND1) 2.0 (Fast Track)



Course Summary

Interconnecting Cisco Network Devices Part 1, Provide students with the key, fundamental skills, needed to successfully configure, operate, and maintain Cisco routers and switches.

Duration

2 days

Objectives

-  Understand Basic Network Technologies
-  Understand Configuring Routers & Switches

Audience

Network Engineers, Network Administrators & System Administrators
















Pre-Requisites






Basic understanding of computer systems and network technologies is expected with working knowledge in Routers & Switches

Outline









Day1:

-  Exploring the Functions of Networking
-  Introducing LANs
-  Operating Cisco IOS Software
-  Starting a Switch
-  Understanding Ethernet and Switch Operation
-  Understanding the TCP/IP Internet Layer
-  Understanding IP Addressing and Subnets
-  Understanding the TCP/IP Transport Layer
-  Exploring the Functions of Routing
-  Configuring a Cisco Router
-  Exploring the Packet-Delivery Process
-  Enabling Static Routing
-  Managing Traffic Using ACLs




Day2:

-  Securing Administrative Access
-  Implementing Device Hardening
-  Implementing Traffic Filtering with ACLs
-  Building a Medium-Sized Network
-  Implementing VLANs and Trunks



-  Routing Between VLANs
-  Using a Cisco Network Device as a DHCP Server
-  Introducing WAN Technologies
-  Introducing Dynamic Routing Protocols
-  Implementing OSPF
-  Introducing Basic IPv6
-  Understanding IPv6
-  Configuring IPv6 Routing

Lab Requirements

-  Windows Enabled System - WinXP/Windows 7
-  4 – 8GB Memory
-  Cisco Packet Tracer Software