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Interconnecting Cisco Network Devices (ICND)

Duration: 5 Days

Course Content

This course teaches both routing and switching concepts that covers both Layer 2 and Layer 3 technologies. It focus on using Cisco Catalyst switches and Cisco routers connected in local-area networks (LANs) and wide area networks (WANs) typically found in small to medium network sites. Upon completion of the Interconnecting Cisco Network Devices course the student will be able to select, connect, configure, and troubleshoot the various Cisco networking devices.

Course Outline

- Introduction to networking
 - OSI Model
 - Encapsulation process
 - TCP/IP Model
 - Addressing and Subnetting
 - Networking Equipments

- Cisco Router and IOS
 - IOS Basics
 - Cisco Discovery Protocol
 - Interface Management
 - File and Configuration Management

- Switching
 - Ethernet Technology
 - Switching Concepts
 - Spanning Tree Protocol
 - VLAN Concepts
 - 802.1q Trunking
 - Switch Configuration

- Routing
 - Routing Concepts
 - Routing between VLANs
 - Static Routing
 - Dynamic Routing
 - RIPv1 and RIPv2
 - Overview of EIGRP and basic configuration
 - Overview of OSPF and basic configuration

- Security
 - Access Control List
 - Network Address Translation

- WAN
 - PPP Concepts and Configuration
 - Frame-relay Concepts and Configuration
 - ISDN Concepts and Configuration