



CURSO INTERCONNECTING CISCO NETWORKING DEVICES PART 1

OBJETIVES

Upon completing this course, the learner will be able to meet these overall objectives:

- Describe network fundamentals and build simple LANs
- Establish Internet connectivity
- Manage network device security
- Expand small to medium sized networks with WAN connectivity
- Describe IPv6 basics

MOD I. BUILDING A SIMPLE NETWORK

1. Exploring the functions of Networking
2. Host-to-Host Communications Model
3. Introducing LANs
4. Operating Cisco IOS Software
5. Starting a Switch
6. Understanding Ethernet and Switch Operation
7. Troubleshooting Common Switch Media Issues

MOD II. ESTABLISHING INTERNET CONNECTIVITY

1. Understanding TCP/IP Internet Layer
2. Understanding IP Addressing and Subnets
3. Understanding TCP/IP Transport Layer
4. Exploring the Functions of Routing
5. Configuring a Cisco Router
6. Exploring the Packet Delivery Process



7. Enabling Static Routing
8. Managing Traffic Using ACLs
9. Enabling Internet Connectivity

MOD III. MANAGE NETWORK DEVICE SECURITY

1. Securing Administrative Access
2. Implementing Device Hardening
3. Implementing Traffic Filtering with ACLs

MOD IV. BUILDING A MEDIUM-SIZED NETWORK

1. Implementing VLANs and Trunks
2. Routing Between VLANs
3. Using a Cisco Network Device as a DHCP Server
4. Introducing WAN Technologies
5. Introducing Dynamic Routing Protocols
6. Implementing OSPF

MOD V. INTRODUCING IPv6

1. Introducing Basic IPv6
2. Understanding IPv6
3. Configuring IPv6 Routing

DURATION

30 hours