

# Interconnecting Cisco Networking Devices: Part 2

Course ICND2 • 5 Days

*Knowlogy's Interconnecting Cisco Networking Devices: Part 2 (ICND2) can be purchased using thirty Cisco Learning Credits.*

## ▶ COURSE OVERVIEW

This course focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small to medium-size branch office Enterprise network, including configuring several switches and routers, connecting to a WAN and implementing network security.

## ▶ OBJECTIVES

- Review how to configure and troubleshoot a small network.
- Expand the switched network from a small LAN to a medium-sized LAN with multiple switches, supporting VLANs, trunking, and spanning tree.
- Describe routing concepts as they apply to a medium-sized network and discuss considerations when implementing routing on the network.
- Configure, verify, and troubleshoot OSPF.
- Configure, verify, and troubleshoot EIGRP.
- Determine how to apply ACLs based on network requirements, and to configure, verify, and troubleshoot ACLs on a medium-sized network.
- Describe when to use NAT or PAT on a medium-sized network, and configure NAT or PAT on routers.  
Identify and implement the appropriate WAN technology based on network requirements.

## ▶ COURSE OUTLINE

### Module 1 - Small Network Implementation

- Introduction to the Review Lab

### Module 2 - Medium-Sized Switched Network Construction

- Lesson 1: Implementing VLANs and Trunks
- Lesson 2: Improving Performance with Spanning Tree
- Lesson 3: Routing Between VLANs
- Lesson 4: Securing the Expanded Network
- Lesson 5: Troubleshooting Switched Networks

### Module 3 - Medium-Sized Routed Network Construction

- Lesson 1: Reviewing Routing Operations
- Lesson 2: Implementing VLSM

### Module 4 - Single Area OSPF Implementation

- Lesson 1: Implementing OSPF
- Lesson 2: Troubleshooting OSPF

### Module 5 - EIGRP Implementation

- Lesson 1: Implementing EIGRP
- Lesson 2: Troubleshooting EIGRP

### Module 6 - Access Control Lists

- Lesson 1: Introducing ACL Operation
- Lesson 2: Configuring and Troubleshooting ACLs

### Module 7 - Address Space Management

- Lesson 1: Scaling the Network with NAT and PAT
- Lesson 2: Transitioning to IPv6

### Module 8 - LAN Extension to a WAN

- Lesson 1: Introducing VPN Solutions
- Lesson 2: Establishing a Point-to-Point WAN Connection with PPP
- Lesson 3: Establishing a WAN Connection with Frame Relay
- Lesson 4: Troubleshooting Frame Relay WANs



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