



Enhanced Network Solutions Group

Systems Integration • Learning Solutions • CIO Consulting
Managed Outsourcing • Healthcare Solutions • Security Solutions

7224 Engle Road - Fort Wayne, IN 46804 - Phone: (260) 432-1364 - Fax: (260) 432.3168

ICND2 Interconnecting Cisco Network Devices Part 2

(Note: Combined 5-day format available including ICND1)

ICND2 Rev 05.11

5 days

Description

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.

Prerequisites

- ICND1

Course Objectives

After completing this course, the learner will be able to meet these overall 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

Lesson 1: Introducing the Review Lab

Module 2: Medium-Sized Switched Network Construction

Lesson 1: Implementing VLANs and Trunks

Lesson 2: Optimizing Spanning Tree Performance

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



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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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