



Enhanced Network Solutions Group

Systems Integration • Learning Solutions • CIO Consulting
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ICND1 Interconnecting Cisco Network Devices Part 1

ICND1 Rev 04.10

5 days

Description

This course focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small branch office Enterprise network, including configuring a switch, a router, and connecting to a WAN and implementing network security. A student should be able to complete configuration and implementation of a small branch office network under supervision.

Prerequisites

- None

Course Objectives

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

- Describe how networks function, identifying major components, function of network components, and the Open System Interconnection (OSI) reference model
- Using the host-to-host packet delivery process, describe issues related to increasing traffic on an Ethernet LAN. and identify switched LAN technology solutions to Ethernet networking issues
- Describe the reasons for extending the reach of a LAN and the methods that can be used with a focus on RF wireless access
- Describe the reasons for connecting networks with routers and how routed networks transmit data through networks using TCP/IP
- Describe the function of Wide Area Networks (WANs), the major devices of WANs, and configure PPP encapsulation, static and dynamic routing, PAT and RIP routing
- Use the command-line interface to discover neighbors on the network and manage the router's startup and configuration

Course Outline

Module 1: Building a Simple Network

Module 2: Ethernet Local Area Networks

Module 3: Wireless Local Area Networks

Module 4: Exploring the Functions of Routing

Module 5: Wide Area Networks

Module 6: Network Environment Management



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