

COURSE **Interconnecting Cisco Networking Devices Part 2 (ICND2) v1.0**

CODE **TRN-ICND2**

DURATION 5 days

COURSE

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.

WHO SHOULD ATTEND

- Channel Partner / Reseller
- Customer
- Employee

COURSE 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

Small Network Implementation

- Introducing the Review Lab

Medium-Sized Switched Network Construction

- Implementing VLANs and Trunks
- Improving Performance with Spanning Tree
- Routing Between VLANs
- Securing the Expanded Network
- Troubleshooting Switched Networks

Medium-Sized Routed Network Construction

- Reviewing Routing Operations
- Implementing VLSM

Single-Area OSPF Implementation

- Implementing OSPF
- Troubleshooting OSPF

EIGRP Implementation

- Implementing EIGRP
- Troubleshooting EIGRP

Access Control Lists

- Introducing ACL Operation
- Configuring and Troubleshooting ACLs

Address Space Management

- Scaling the Network with NAT and PAT
- Transitioning to IPv6

LAN Extension into a WAN

- Introducing VPN Solutions
- Establishing a Point-to-Point WAN Connection with PPP
- Establishing a WAN Connection with Frame Relay
- Troubleshooting Frame Relay WANs

PREREQUISITES

- ICND1