

Interconnecting Cisco Network Devices Pt2

Duration: 5 Days

Course Code: ICND2

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. A student should be able to complete configuration and implementation of a small to medium sized branch office network under supervision.

Target Audience:

This course is intended for System Engineers who will install, operate and troubleshoot a small branch office Enterprise network.

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

Prerequisites:

Completion of ICND1 is essential prior to commencing ICND2

Testing and Certification:

Recommended as preparation for exam(s):

- 200-105 ICND2
- 200-125 CCNA – This is a composite exam consisting
- of both ICND1 & ICND2

Note: Successful completion of both ICND1 (100-105) and ICND2 (200-105) exams results in award of the Cisco Certified Network Associate (CCNA) certification

Follow-on-Courses:

CCNA is the prerequisite for students who choose to continue on to Professional level training:

- CCNP
- CCNP Data Center
- CCNP Security
- CCNP Wireless

Content:

- 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 Operation
- 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 ACL's
- Address Space Management
- IPv6
- LAN Extension into a WAN
- Establishing a Point-to-Point WAN Connection with PPP
- Establishing a WAN Connection with Frame Relay
- Troubleshooting Frame Relay WANs
- Introducing VPN Solutions

Further Information:

For more information, or to book your course, please call us on 062-65781

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