

Interconnecting Cisco Networking Devices, Part 2 (ICND2)

Duration 5 Days

COURSE CONTENT

This course will provide students with the knowledge and skills needed to install, configure, operate, and troubleshoot a small enterprise network. It will ensure that students understand and are ready to deploy the latest shifts in technologies and solutions as follows:

- Understanding of Quality of Service (QoS) elements and their applicability
- How virtualized and cloud services will interact and impact enterprise networks
- Overview of network programmability and the related controller types and tools that are available to support software-defined network architectures

A full suite of labs have been developed using the virtual IOS environment with flexible topologies that reinforce concepts with hands-on, guided discovery and challenge labs that align to each lesson module.

Upon completing this course, you will be able to meet these objectives:

- Operate a medium-sized LAN with multiple switches supporting VLANs, trunking, switch stacking, chassis aggregation and spanning tree protocols
- Troubleshoot IP connectivity
- Configure and troubleshoot EIGRP and OSPF in IPv4 and IPv6 environments
- Define characteristics, functions and components of a WAN
- Describe SNMP, Syslog, and manage Cisco device configurations, IOS images and licenses
- Understand QoS, virtualization and cloud services, and network programmability related to WAN, access and core segments.

COURSE OUTLINE

- **Module 1:** Implement Scalable Medium-Sized Networks
- **Module 2:** Troubleshooting Basic Connectivity
- **Module 3:** Implementing an EIGRP-Based Solution
- **Module 4:** Summary Challenge
- **Module 5:** Implement a Scalable OSPF-Based Solution
- **Module 6:** Wide-Area Networks
- **Module 7:** Network Device Management and Security
- **Module 8:** Summary Challenge

WHO SHOULD ATTEND

- Channel Partners
- Customers
- Employees

PREREQUISITES

It is recommended, but not required, to have the following skills and knowledge before attending this course:

- Understanding network fundamentals
- Implementing local area networks
- Implementing Internet connectivity
- Managing network devices
- Securing network devices
- Implementing basic IPv6 connectivity