



# Interconnecting Cisco Network Devices 2 (ICND2)

Course ID#: 1575-927-ZZ-W

Hours: 35

## Course Content

### Course Description:

A new version of this course, ICND2 v2.0, is available now and is part of Cisco's new CCNA Routing and Switching certification program.

Building on the skills provided by ICND1 (Interconnecting Cisco Network Devices 1), ICND2 not only delivers essential information needed to pass the CCNA certification exams, it also gives you a solid technical foundation to ensure that you can succeed on the job.

### Prerequisites:

- Firm background in data networking
- Some hands-on experience with Cisco routers and switches
- Basic working knowledge of switches and routers
- Complete understanding of the OSI model, IP addressing, and IP subnetting
- ICND1 - Interconnecting Cisco Network Devices 1

### Topics:

#### Module 1: Small Network Implementation

#### Module 2: Medium-Sized Switched Network Construction

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

#### Module 3: Medium-Sized Routed Network Construction

- Routing Operations
- Implementing VLSM

#### Module 4: Single-Area Open Shortest Path First (OSPF)

- Implementing OSPF

#### Module 5: Enhanced Interior Gateway Routing Protocol (EIGRP)

- Implementing EIGRP
- Troubleshooting EIGRP

#### Module 6: Access Control Lists (ACLs)

- ACL Operation
- Configuring and Troubleshooting ACLs

#### Module 7: Address Space Management

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



# Interconnecting Cisco Network Devices 2 (ICND2)

Course ID#: 1575-927-ZZ-W

Hours: 35

## Module 8: LAN Extension into a WAN

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