

**ICND1 v1.1**

***Interconnecting Cisco Networking Devices - Part 1, Volume 1***

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# Lab Guide

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## Overview

This guide presents instructions and other information concerning the lab activities for this course. You can find the solutions in the Lab Activity Answer Key.

## Outline

This guide includes these activities:

- Lab 1-1: Using Windows Applications as Network Tools
- Lab 1-2: Observing the TCP Three-Way Handshake
- Lab 1-3: Observing Extended PC Network Information
- Lab 2-1: Connecting to Remote Lab Equipment
- Lab 2-2: Performing Switch Startup and Initial Configuration
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- Lab 4-1: Converting Decimal to Binary, and Binary to Decimal
- Lab 4-2: Classifying Network Addressing
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- Lab 4-4: Calculating Subnet Masks
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- Lab 4-8: Using Cisco SDM to Configure DHCP Server Function
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**ICND2 version 1, Part 2**

***Interconnecting Cisco Networking Devices - Part 2, Volume 1***

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Example: Link-State Routing Protocol Algorithms

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## **ICND2 version 1, Part 2**

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### **Establishing a WAN Connection with Frame Relay**

Overview

Objectives

Understanding Frame Relay

Example: Frame Relay Terminology- DLCI

Example: Frame Relay Address Mapping

Configuring Frame Relay

Example: Configuring Frame Relay Point-to-Point Subinterfaces

Example: Configuring Frame relay Multipoint Subinterfaces

Verifying Frame Relay

Summary

### **Troubleshooting Frame Relay WANs**

Overview

Objectives

Components of Troubleshooting Frame Relay

Troubleshooting Frame Relay Connectivity Issues

Summary

Module Summary

Module Self-Check

Module Self-Check Answer Key

# Lab Guide

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## Overview

This guide presents the instructions and other information concerning the lab activities for this course. You can find the solutions in the Lab Activity Answer Key.

## Outline

This guide includes these activities:

- Lab Activity 1-1: Implementing a Small Network (Review Lab)
- Lab Activity 2-1: Configuring Expanded Switched Networks
- Lab Activity 2-2: Troubleshooting Switched Networks
- Lab Activity 4-1: Implementing OSPF
- Lab Activity 4-2: Troubleshooting OSPF
- Lab Activity 5-1: Implementing EIGRP
- Lab Activity 5-2: Troubleshooting EIGRP
- Lab Activity 6-1: Implementing and Troubleshooting ACLs
- Lab Activity 7-1: Configuring NAT and PAT
- Lab Activity 7-2: Implementing IPv6
- Lab Activity 8-1: Establishing a Frame Relay WAN
- Lab Activity 8-2: Troubleshooting Frame Relay WANs
- Answer Key