

Cisco Training: Planning & Implementing Networks (ICND2) (ICND2C, 4 jours)

Description

The course Planning & Implementing Networks (ICND2) (Cisco Training) is an exploration of configuration, management and troubleshooting activities in a Cisco network. This course focusses on the routing and intelligent switching components. The training includes the major routing protocols (RIP, EIGRP, OSPF and BGP) in a corporate environment is the focus of the course. This course prepares the student for the CCNA certification (Part 2).

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Reviewing Essentials

IPv4 Essential Addressing
Configuring Addressing on a Cisco Router
IP Subnetting Essentials
Creating Subnets in a Cisco Environment
Integrating Wireless Networks
Adding Network Services
Integrating IPv6
Troubleshooting and Diagnostics
Exam Practice
Practical Lab

RIP and Enhanced IGRP (EIGRP)

Routing Overview: Technologies and Protocols
About RIP: Advantages and Disadvantages
Implementing RIP: Hands-On
EIGRP Features and Operation
Using EIGRP to Support Large Networks
Configuring EIGRP
Configuring EIGRP Summary Routes
Load Balancing with EIGRP
Verifying EIGRP
Troubleshooting EIGRP
IPv6 Implementation Details
Exam Practice
Practical Lab

Open Shortest Path First (OSPF)

Open Shortest Path First (OSPF) Basics
Configuring OSPF
Verifying OSPF Configuration
OSPF DR and BDR Elections
OSPF and Loopback Interfaces
Troubleshooting OSPF
Configuring OSPF Summary Routes

IPv6 Implementation Details

Exam Practice

Practical Lab

Layer 2 and Layer 3 Switching and Spanning Tree Protocol (STP)

Before Layer 2 Switching

Switching Services

Spanning Tree Protocol (STP)

Configuring Catalyst Switches

Configuring Layer 3 Switches

Troubleshooting Switches

IPv6 Implementation Details

Exam Practice

Practical Lab

Virtual LANs (VLANs)

VLAN Basics

VLAN Memberships

Identifying VLANs

VLAN Trunking Protocol (VTP)

Routing between VLANs

Configuring VLANs

Configuring VTP

Telephony: Configuring Voice VLANs

IPv6 Implementation Details

Exam Practice

Practical Lab

Building Networks

The Components of a Network

Case Study: Building a Small Network

Case Study: Building a Medium Sized Network

Case Study: Building a Large Network

Case Study: Building an IPv6 Network

Exam Practice

Practical Lab

Security

Perimeter, Firewall, and Internal Routers

Introduction to Access Lists

Standard Access Lists

Extended Access Lists

Turning Off and Configuring Network Services

Monitoring Access Lists

IPv6 Implementation Details

Exam Practice

Practical Lab

Network Address Translation (NAT)

When Do We Use NAT?

Types of Network Address Translation

NAT Names

How NAT Works

Testing and Troubleshooting NAT

IPv6 Implementation Details

Exam Practice

Practical Lab

Wireless Technologies

Introduction to Wireless Technology

Basic Wireless Devices

Wireless Regulations

Wireless Topologies

Wireless Security

Next Generation Wireless Technologies

About IPv6 Mobile

Exam Practice

Practical Lab

Advanced Lab

Building a Complete Network with Cisco Devices