SETC Training Corporate Logo

Cisco Training: A Comprehensive Introduction to Networking (CSCINT, 4 jours)

Description

The course A Comprehensive Introduction to Networking (Cisco Training) teaches how to build a network using Cisco equipment. The training includes configuration of key network services & protocols. The course also covers cabling, protocols, routing and ACLs amongst others. If you need to implement a Cisco network, this is the course for you.

Tarifs

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

Plan de cours

Internetworking fundamentals

- Exploring the Functions of Networking
- Introduction to Securing the Network
- Network Devices and Components
- The Data Transmission Process
- The Importance of Networking Models
- Host-to-Host Communication Model
- TCPIP Internet Layer
- TCPIP Transport Layer
- TCP and UDP
- Understanding Ethernet
- Connecting to an Ethernet LAN

Ethernet Standards and Cable Types

- The Need for and Operation of CSMA/CD
- Ethernet Types and Standards
- Pins and Transmissions
- Understanding Crosstalk
- Exploring Cable Types
- Ethernet Addressing

Ethernet Local Area Networks

- Exploring the Functions of LANs
- Understanding the Challenges of Shared LANs
- Solving Network Challenges with Switched LAN Technology
- Exploring the Packet Delivery Process
- Operating Cisco IOS Software
- Switch Fundamentals
- Understanding Switch Security
- Port Security Defaults, Options and Configuration
- Maximizing the Benefits of Switching
- Troubleshooting Switch Issues

Wireless Local Area Networks

- Exploring Wireless Networking
- Understanding WLAN Technologies
- Overview of WLAN Security

- Implementing a WLAN

Local Area Network Connections

- Exploring the Functions of Routing
- Understanding Binary Basics
- IPv4 Addressing , Subnetting and IP Routing
- Static, Dynamic, Classful and Classless Routing
- Overview of Networking Protocols
- Constructing a Network Addressing Scheme
- Overview of a Cisco Router
- Configuring a Cisco Router
- Packet Delivery Process
- Understanding of Router Security
- Using a Cisco Router and Security Device Manager
- Using a Cisco Router as a DHCP Server
- Accessing Remote Devices and Remote Management

Wide area Networks

- Understanding WAN Technologies
- Enabling the Internet Connection
- Enabling Static Routing
- Configuring Serial Encapsulation
- Enabling Routing Information Protocol (RIP)
- Basic WAN Concepts
- WAN Protocols and Connection Types
- Overview of ARP, DNS and DHCP
- Network Address Translation (NAT)
- Introduction to Cisco Subinterfaces
- Configuring Cisco Subinterfaces

Network Environment Management

- Discovering Neighbors on the Network
- Managing Router Startup and Configuration
- Managing Cisco Devices

Medium-Sized Switched Network Construction

- Implementing VLANs and Trunk
- Improving Performance with Spanning Tree
- Routing Between VLANs
- Securing the Expanded Network
- Troubleshooting Switched Network
- Reviewing Routing Operations
- Implementing VLSM

Simple Area OSPF Implementation

- Implementing OSPF
- Troubleshooting OSPF

EIGRP Implementation

- Implementing EIGRP
- Troubleshooting EIGRP

Access Control Lists (ACLs)

- Configuring and Troubleshooting ACLs

Address Space Management

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

LAN Extension into a WAN
Introduction to VPN Solutions
Establishing a Point-to-Point WAN Connection with PPP
Introducing IPv6
IPv6 Addressing
Planning an IPv6 Network
Implementing an IPv6 Network
Planning for and Implementing DHCP
Planning for and Implementing Name Resolution
About Security