Cisco Training: Inter-Networking Devices Essentials Part 1 (ICND1C, 4 jours)

Description

The course Inter-Networking Devices Essentials Part 1 (Cisco Training) is an exploration of core networking components including IP addressing, network services, switching, routing & more. The training includes the OSI reference model, network topology design, VLANs, IPv4 & Ipv6 and more. This course prepares the student for CCNA certification (Part 1).

Tarifs

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

Plan de cours

Internetworking Essentials
The Essential Concepts of Internetworking
Internetworking Models
Understanding the Purpose and Usefulness of the OSI Reference Model
About Physical Network Segmentation
About Logical Network Segmentation
Understanding the Topology of a Cisco Based Network
Exam Preparation
Practice Lab
Review of Ethernet Networking and Data Encapsulation
Ethernet Networks in Review
Physical Media: Types and Use
Packet Transfer on a Wired Network
Packet Transfer on a Wireless Network
The Cisco Three-Layer Hierarchical Model
The Communication Process: Wireless, LAN and WAN
Exam Preparation
Practice Lab
Introduction to TCP/IP: Version 4
Introducing TCP/IP
About TCP/IP Communication
IP Addressing
IPv4 Address Types and Classes
Configuring Network Clients
Configuring Device Interfaces
Understanding DHCP: Role and Function
Understanding DNS: Role and Function
About NAT: Types and Design
Exam Preparation
Practice Lab
Sub-netting: Theory and Practice
Reviewing Address Classes
The Basic Communication Process: Logical Segmentation of the Network

The Basics of Sub-netting **Determining Host and Domain Requirements** Variable Length Subnet Masks (VLSMs) About Summarization Planning and Designing Networks About VLANs: Theory and Practice **Exam Preparation** Practice Lab: Designing a TCP/IP based Network Practice Lab: Troubleshooting TCP/IP Cisco's Internetworking Operating System (IOS) IOS Components: Interface and Components Tips and Tricks: AutoComplete and Command Execution Working with Configuration Working with Interfaces Working with Device Features **Exam Preparation** Practice Lab Managing a Cisco Internetwork The Internal Components of a Cisco Router The Router Boot Sequence Managing Configuration Register Backing Up and Restoring the Cisco IOS Backing Up and Restoring the Cisco Configuration Using Cisco Discovery Protocol (CDP) Using Telnet **Resolving Hostnames** Checking Network Connectivity and Troubleshooting **Exam Preparation** Practice Lab IP Routing **Routing Basics** The IP Routing Process Configuring IP Routing in Our Network **Dynamic Routing Distance-Vector Routing Protocols** Routing Information Protocol (RIP) Verifying Your Configurations **Exam Preparation** Practice Lab Exploring WAN Connectivity Overview of WAN Technologies Introduction to Wide Area Networks Cable and DSL Cabling the Serial Wide Area Network High-Level Data-Link Control (HDLC) Protocol Point-to-Point Protocol (PPP) Frame Relay Virtual Private Networks **Exam Preparation** Practice Lab

Introducing IPv6 IPv6 Addressing Basics IPv6 Address Types IPv6 Cisco Requirements Planning an IPv6 Network Implementing DHCPv6 Implementing DNSv6 Planning the Network Implementing the Network Exam Preparation Practice Lab
