

Cisco | Networking Academy®
Mind Wide Open™

Certificate of Course Completion

CCNA Exploration: Accessing the WAN

During the Cisco® Networking Academy course, administered by the undersigned instructor, the student was able to proficiently:

- Configure and verify basic WAN serial connections including serial, Point-to-Point and Frame Relay
- Describe the functions of common security appliances and applications and the practices to secure network devices
- Describe, configure, apply, monitor, and troubleshoot Access Control Lists based on network requirements
- Describe the importance, benefits, role, impact, and components of VPN technology
- Explain, configure, verify, and troubleshoot IP addressing services including Network Address Translation (NAT), DHCP, and IPv6

JOSE LUIS PONCE MARTÍN
Student

Departamento de Telecomunicaciones de la Academia de Ingenieros del Ejercito
Academy Name

Hoyo de Manzanares
Location

Corbi Canales, Santiago
Instructor

March 31, 2011
Date

Instructor Signature



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CCNA Exploration: LAN Switching and Wireless

During the Cisco® Networking Academy course, administered by the undersigned instructor, the student was able to proficiently:

- Explain basic switching concepts and the operation and configuration of Cisco switches
- Describe enhanced switching technologies such as VLANs, VLAN Trunking Protocol (VTP), Rapid Spanning Tree Protocol (RSTP), Per VLAN Spanning Tree Protocol (PVST), and 802.1q
- Configure, verify, and troubleshoot VLANs, trunking on Cisco switches, inter-VLAN routing, VTP, and RSTP
- Identify, describe, and resolve common switched network media issues, configuration issues, autonegotiation, and switch hardware failures
- Identify and describe the purpose of the components in a small wireless network, such as Service Set Identification (SSID), Basic Service Set (BSS), and Extended Service Set (ESS)

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CCNA Exploration: Routing Protocols and Concepts

During the Cisco® Networking Academy course, administered by the undersigned instructor, the student was able to proficiently:

- Describe the purpose, nature and operations of a router and routing tables
- Describe, configure and verify router interfaces
- Explain the purpose and procedure for configuring static routes
- Identify the characteristics of distance vector routing protocols
- Describe the network discovery process of distance vector routing protocols using Routing Information Protocol (RIP)
- Describe the functions, characteristics, and operations of the RIP protocols
- Compare and contrast classful and classless IP addressing
- Describe classful and classless routing behaviors in routed networks
- Design and implement a classless IP addressing scheme for a given network
- Demonstrate comprehensive RIP configuration skills
- Describe the main features and operations of the Enhanced Interior Gateway Routing Protocol (EIGRP)
- Describe the basic features and concepts of link-state routing protocols
- Describe the purpose, nature and operations of the Open Shortest Path First (OSPF) protocol

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CCNA Exploration: Network Fundamentals

During the Cisco® Networking Academy course, administered by the undersigned instructor, the student was able to proficiently:

- Explain how communication works in data networks and the Internet
- Recognize the devices and services that are used to support communications across an internetwork
- Explain the role of protocols in data networks
- Describe the importance of addressing and naming schemes at various layers of data networks
- Describe the protocols and services provided by the application layer in the OSI model and describe how this layer operates in sample networks
- Analyze the operations and features of the transport layer protocols and services
- Analyze the operations and features of the network layer protocols and services and explain the fundamental concepts of routing
- Design, calculate, and apply subnet masks
- Describe the operation of protocols at the data link layer
- Explain the role of physical layer protocols and services
- Build a simple Ethernet network using routers and switches
- Use Cisco CLI commands to perform basic router and switch configuration and verification

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