Cisco | Networking Academy®
Mind Wide Open™

Certificate of Course Completion

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

Medhat Rashad Hashem
Student

ITAcademy
Academy Name

Gizah
Location

October 7, 2010
Date

farouk elsayed, tarek
Instructor

Instructor Signature

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706

Direct: 408 526 4000
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www.cisco.com

October 7, 2010

Dear Medhat Rashad Hashem

Congratulations on completing the **CCNA Exploration: Network Fundamentals** course as part of the Cisco Networking Academy. This hands-on, lab-oriented course has prepared you for exciting career opportunities in the technology industry.

By completing this course you have earned a Certificate of Completion for CCNA Exploration: Network Fundamentals, and acquired competencies that include the following:

- Using network protocol models to explain the layers of communications in data networks
- Designing, calculating, and applying subnet masks and addresses
- Building a simple Ethernet network using routers and switches
- Employing basic cabling and network designs to connect devices
- Using Cisco CLI commands to perform basic router and switch configuration and verification

Technological literacy is more important today than ever before, and Cisco is proud to provide you with the knowledge and skills necessary to build and maintain computer networks.

Please accept my best wishes for your continued success.

Sincerely,

John T. Chambers
Chairman and Chief Executive Officer

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Certificate of Course Completion

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)

Medhat Rashad Hashem
Student

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October 7, 2010
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October 7, 2010

Dear Medhat Rashad Hashem

Congratulations on completing the **CCNA Exploration: LAN Switching and Wireless** course as part of the Cisco Networking Academy. This hands-on, lab-oriented course has prepared you for exciting career opportunities in the technology industry.

By completing this course you have earned a Certificate of Completion for CCNA Exploration: LAN Switching and Wireless, and acquired competencies that include the following:

- Explain the technology and media access control method for Ethernet networks
- Explain basic switching concepts and the operation of Cisco switches
- Describe, configure, verify, and troubleshoot enhanced switching technologies such as VLANs, trunking, inter-VLAN routing, VTP, and RSTP
- 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)
- Identify basic configuration parameters on a wireless network to ensure secure connection to access points

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Sincerely,

John T. Chambers
Chairman and Chief Executive Officer

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Certificate of Course Completion

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

Medhat Rashad Hashem
Student

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October 7, 2010

Dear Medhat Rashad Hashem

Congratulations on completing the **CCNA Exploration: Routing Protocols and Concepts** course as part of the Cisco Networking Academy. This hands-on, lab-oriented course has prepared you for exciting career opportunities in the technology industry.

By completing this course you have earned a Certificate of Completion for CCNA Exploration: Routing Protocols and Concepts, and acquired competencies that include the following:

- Configuring and verifying router interfaces
- Identifying the characteristics of distance vector routing protocols
- Demonstrating comprehensive RIP configuration skills
- Designing and implementing a classless IP addressing scheme for a given network
- Using advanced configuration commands with routers implementing EIGRP
- Describe the basic features and concepts of link-state routing protocols
- Describe and configure basic OSPF

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Please accept my best wishes for your continued success.

Sincerely,

John T. Chambers
Chairman and Chief Executive Officer

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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

Medhat Rashad Hashem
Student

ITAcademy
Academy Name

Gizah
Location

December 25, 2010
Date

farouk elsayed, tarek
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December 25, 2010

Dear Medhat Rashad Hashem

Congratulations on completing the **CCNA Exploration: Accessing the WAN** course as part of the Cisco Networking Academy. This hands-on, lab-oriented course has prepared you for exciting career opportunities in the technology industry.

By completing this course you have earned a Certificate of Completion for CCNA Exploration: Accessing the WAN and acquired competencies that include the following:

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

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Please accept my best wishes for your continued success.

Sincerely,

John T. Chambers
Chairman and Chief Executive Officer