



Cisco Systems, Inc.
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Jan 31, 2014

Dear Martin Petroski

Congratulations on completing the Cisco® **CCNA Exploration: Network Fundamentals** course as part of the Cisco Networking Academy® program. 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:

- 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 OSI 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

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 computers.

Please accept my best wishes for your continued success.

Sincerely,

A handwritten signature in cursive script that reads "John Chambers".

John T. Chambers
Chairman and Chief Executive Officer



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
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- Build a simple Ethernet network using routers and switches
- Use Cisco® CLI commands to perform basic router and switch configuration and verification

Martin Petroski

Student

University St. Kliment Ohridski, Faculty of Technical Sciences

Academy Name

Macedonia

Location

Vasko Sivakov

Instructor

Jan 31, 2014

Date

Instructor Signature