



Cisco Systems, Inc.
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June 30, 2013

Dear Lacher Dennis

Congratulations on completing the **CCNA 1 Networking Basics** 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 1 Networking Basics and acquired competencies that include the following:

- Identify and describe IP Address Classes
- Describe the purpose of the OSI Model and the functions of each layer
- Describe and apply CAT 5 cabling standards
- Proficient in planning, designing, and installing work group and peer-to-peer LAN's
- Describe the purpose of the TCP/IP Protocol Stack (DoD Model) and the functions of each layer
- Identify and describe Ethernet families (10BaseT, Fast Ethernet)

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 T. Chambers".

John T. Chambers
Chairman and Chief Executive Officer



Cisco | Networking Academy®
Mind Wide Open™

Certificate of Course Completion

CCNA 1 Networking Basics

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

- Identify and describe IP Address Classes
- Proficient in IP address subnetting techniques
- Describe the purpose of the OSI Model and the functions of each layer
- Describe the process of data encapsulation
- Describe and apply CAT 5 cabling standards
- Proficient in planning, designing, and installing work group and peer-to-peer LAN's
- Describe the purpose of the TCP/IP Protocol Stack (DoD Model) and the functions of each layer
- Proficient in detailing the specifications of Ethernet
- Identify and describe Ethernet families (10BaseT, Fast Ethernet)
- Describe the function of MAC addresses

Lacher Dennis

Student

Berufskolleg fuer Technik und Informatik Kreis Neuss

Academy Name

Location

Kraus, Helmut

Instructor

June 30, 2013

Date

Instructor Signature