



## 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 certify 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 RIPv1 protocol
- 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 RIPv1 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

Toren Deramus

Student

Gadsden State Community College

Academy Name

Gadsden

Location

Cornutt, Frank

Instructor

January 16, 2009

Date

Instructor Signature



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

Direct: 408 526 4000  
FAX: 408 526 4100  
[www.cisco.com](http://www.cisco.com)

January 16, 2009

Dear Toren Deramus

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
- Demonstrating comprehensive RIPv1 configuration skills
- Designing and implementing a classless IP addressing scheme for a given network
- Using advanced configuration commands with routers implementing EIGRP
- Identifying the characteristics of distance vector routing protocols

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 black ink that reads "John Chambers".

John T. Chambers  
Chairman and Chief Executive Officer