

Certificate of Course Completion



## CCNA 1—Networking Basics

## JUT ANNECY

Département R & T 8,P. 240

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Student's Name

Bruno LESIEUR ⊗

June 21, 2007

Date

Coquin, Didier

Université de Savoie IUT d'Annecy -

Annecy-le-vieux

\_ocation

Instructor's Signature

undersigned instructor, the student was able to proficiently: During the Cisco® Networking Academy® CCNA 1 course administered by the

\*Define and install the hardware and software required to be able to gmmunicate across a network

- Demogstrate the mathematical skills required towork effortless), with integer decimal, binary, and hexadecimal numbers and simple binary logic
- Define and describe the structure and technologies of \( \int \) computer networks
- Describe the meaning and application of the term "bandwidth" when used in networking
- Describe, compare, and cohinast network communications using two examples of layered models
- and the standards associated with copper and optical media Describe the physical electrical and mechanical properties used in networks
- Describe what is required to install a simple WLAN
- Explain/the issues associated with the transmission of signals on networking media
- Describe the topologies and physical issues associated with cabling common EANs
- Describe the physical issues associated with cabling networking equipment to work over a WAN link
- Explain the fundamental coocepts associated with the Ethernet media access technique

- Explain how collisions are detected and the concepts explain how collisions are detected and thernet system associated with autonegotiation on an Ethernet system associated with autonegotiation on an Ethernet system.
- Define and describe the structure and technologies of computer networking:systems
- Describe networking topologies and physical issues associated with cabling common LANs
- Describe the principles and practice of switching on an
- Describe how the protocols associated with TCP/IP allow host Ocommunication to occur
- Explain and demonstrate the mechanics associated with IP addressing
- Describe how an IP address is associated with a device
- Describe the principles and practice of packet switching using
  Describe the principles and practice of packet switching using
- different methods and protocols used to achieve it
- o transport with the connection-oriented one Describe the fundamental concepts associated with transport layer protocols and compare the connectionless approach to
- Yost the major TCP/IP application protocole and briefly define their features and operation

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## CCNA 2—Router and Routing Basics

During the Cisco® Networking Academy® CCNA 2 course administered by the undersigned instructor, the student was able to proficiently:

- Identify the important characteristics of common Wash router in a WANO and common LAN technologies, and describe the role of a configurations and technologies, differentiate between these
- Identify the major internal and external components of a router and describe the associated functionality
- Properly connect router Fast Ethernet, Serial WAN, and console ports

Bruno LESIEUR

Student's Name

March 20, 2008

- Describe the purpose and fundamental operation of the router operating system (IOS®)
- Establish communication between a terminal device and the Fouter operating system (IOS) and use it for system analysis. configuration, and repairs
- Perform, save, and test an initial configuration on prouter
- IUT d'Annecy Universite de Savoie Configure additional administrative functionality on a jouter
- Use embedded data-link layer functionality to perform network neighbor discovery and analysis from the router console

Academy Name

Annecy-le-vieux

Instruetor

Roussel, Alain

- Use embedded Layer 3 through Layer 7 protocols to establish test, suspend, or disconnect connectivity to remote devices from the router consolect
- Identify the stages of the router boot-up sequence and show how the configuration-register and boot system commands modify that sequence

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- Manage system image and device configuration files
- Identify, configure, and verify the use of static and default routes
- Evaluate the characteristics of routing protocols
- Identify, analyze, and show how to rectify inherent problems associated with distance vector routing protocols
- Configure, verify, analyze, and troubleshoo(simple distance octor routing protocols
- Describe the operation of ICMP and identify the reasons, types. and format of associated error and control messages
- Use embedded Layer 3 through Layer 7 protocols to establish. Use embedded Layer on words. test, suspend, or disconnect connectivity to remote devices.
- Use the commands incorporated within Cisco IOS Software to analyze and rectify network problems
- Describe the operation of the major transport layer protocols and the interaction and transportation of application layer data
- Identify the application of packet control with various access
- Analyze, configure, implement, verify, and rectify access control