



Certificate of Course Completion



CCNA 4—WAN Technologies

During the Cisco® Networking Academy® CCNA 4 course administered by the undersigned instructor, the student was able to proficiently:

Joerg Buchholz

Student's Name

May 9, 2007

Date

Tzschaschel, Gerd

Instructor

BbS IV Halle

Academy Name

Halle

Location

Stadt Halle (Saale)

Berufsbildende Schule IV

"Friedrich List"

Instructor's Signature

06108 Halle (Saale)

- Describe the concepts and characteristics of Network Address Translation, and explain its configuration, use, and administration on a network
- Describe the concepts and characteristics of the Dynamic Host Configuration Protocol (DHCP), and explain its configuration, use, and administration on a network
- Describe, compare, and contrast the essential features of WAN technology
- Classify WAN link options and explain the differences between circuit-switched and packet-switched technologies
- Make recommendations about provisioning of WAN services based on the network needs of the customer
- Design a simple WAN system using a hierarchical layered approach to the design
- Describe the operation, configuration, and functionality of serial point-to-point links
- Configure and administer serial point-to-point links
- Describe the concepts, characteristics, and functionality of the Point to Point Protocol (PPP)
- Configure and administer PPP on a serial link
- Describe the concepts, characteristics, and functionality of ISDN
- Configure and administer a router ISDN interface
- Describe the concepts, characteristics, and functionality of Dial-on-Demand Routing (DDR)
- Configure and administer DDR in a network
- Describe the concepts, characteristics, and functionality of Frame Relay
- Configure and administer Frame Relay using PVCs
- Describe, compare, and contrast workstation and server operating systems and the associated hardware
- Describe the concepts of network management, and explain how network management tools are used on a modern network