

CERTIFICATE OF COURSE COMPLETION

CCNA 4 WAN TECHNOLOGIES



Glenn Robinson

Date : May 6, 2004
Instructor : John, Rakesh
Location : Menlo Park
Academy Name : Opportunities
Industrialization
Center West

Instructor's Signature

During the CCNA 4 Course administered by the undersigned instructor, the student was able to proficiently:

- 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 the provision of WAN services based on needs
- Design a simple WAN system using a hierarchical tiered approach to the design
- Describe the operation, configuration, and functionality of serial point—point links
- Configure and administer serial point—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 permanent virtual circuit (PVC) Frame Relay WAN operations
- 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 utilized on a modern network
- Describe the concepts and technologies associated with optical data transmission