

SKILLS INVENTORY

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Soft skills

- Team Player
- Goal oriented and self motivated
- Hardworker
- Able to identify and manage stress
- Create effective correspondence (memo, email, reports)
- Deliver oral presentations
- Effective communication and listening skills

Software

- Install, configure, maintain and troubleshoot Operating Systems (95, 98, 98 SE, ME, Server 2003, XP (Home and Pro))
- Install, configure, maintain and troubleshoot Network Operating Systems (Windows 2003 server, Unix, Novell)
- Familiarity with Linux and Apple Operating Systems
- Microsoft Office (Word, PowerPoint, Excel, Project)
- Microsoft Office Access
 - Design, create, modify and maintain a database
 - Design and create reports to display information
 - Documentation of change to an existing database
- Using Dreamweaver to configure and edit webpages with XHTML
- Create and restore backup images over a network with Norton Ghost

Networking

- Explain common networking concepts and terminology
- Install and troubleshoot basic hardware and software required to communicate in a simple network and test for connectivity
- Describe major network media and media testing techniques
- Explain the fundamental concepts associated with media access techniques
- Optimize network design in regard to segmentation, collision and broadcast domains
- Implement and troubleshoot basic IP addressing and subnetting schemes
- Describe the concepts associated with switching in a LAN environment
- Describe the concepts associated with route selection and packet switching and the different methods and protocols used to achieve it
- Describe the fundamental concepts associated with transport layer protocols
- Explain the OSI model and its functionality in computer networking
- Explain the basic components of a LAN and WAN
- Identify the key characteristics of common WAN configurations and technologies
- Describe the operation of the major transport layer protocols
- Create and maintain detailed documentation of a network
- Define and explain LAN design

Switching

- Install, configure and troubleshoot Cisco switches
- Perform, verify and troubleshoot initial switch configuration tasks including remote access management
- Explain the concepts of switching and the benefits of using switches in a network (frame forwarding, VLANs, STP, VTP, trunking, inter-vlan routing)
- Compare and contrast hubs and switches and their affects on (1) broadcast domains and (2) collision domains
- Perform upgrades or restore Cisco switch IOS and configuration files
- Verify the operational status of a Cisco switched network
- Explain the concept of VLANs in a Cisco network
- Explain VLANs and the benefits of using VTP and trunking to manage traffic
- Create VLANs and assign ports to VLANs to meet given user requirements
- Implement trunking on a switch
- Configure and test routing between VLANs
- Configure VTP between multiple switches
- Use VTP to manage VLANs for given switched network requirements
- Troubleshoot switching problems in Cisco switched networks
- Evaluate and recommend Layer 2 security measures
- Explain and configure Spanning-Tree Protocol (STP) on a Cisco router
- Explain how STP prevents switching loops on a LAN
- Explain the process of selecting a root bridge and root port on a Cisco switch
- Explain the concept of Rapid Spanning-Tree Protocol
- Configure STP and Rapid Spanning-Tree on a Cisco Switch
- Verify the operation of STP and modify STP parameters for given user requirements

Routers

- Manage Cisco router IOS and configuration files
- Identify the major internal and external components of a router and describe their associated functionality
- Identify the stages of the router boot-up sequence and show how the configuration register and boot system commands modify that sequence
- Connect the router FastEthernet, Serial WAN, and console ports to devices and interconnect routers, hubs, and switches using serial and Ethernet interfaces
- Perform, save and test an initial configuration on a router or modify an existing configuration
- Evaluate, configure and troubleshoot routing protocols, static routes and default routes
- Analyze, configure, implement and verify access control lists
- Plan an IP addressing scheme using VLSM on a Cisco router
- Configure, troubleshoot, verify and explain the operation of routing protocols on a Cisco Router (RIP, RIPv2, IGRP, EIGRP, and OSPF)
- Design, configure, troubleshoot and verify the operation of NAT in a LAN configuration
- Evaluate the need for DHCP in LANs and identify the steps for configuring DHCP on Cisco routers
- Configure, troubleshoot and verify PPP in simple WAN networks
- Configure, troubleshoot, and verify implementations of ISDN and DDR in simple WAN networks
- Configure, troubleshoot, and verify implementations of Frame Relay
- Analyze the various issues presented when using routing protocols over a specific WAN topology
- Configure, troubleshoot, and verify implementations of point-to-point lease lines