NETWORKING – CCNA CERTIFICATION COURSE CONTENT

- BASICS OF NETWORKING
 - OSI Layers
 - IP Addressing
 - Subnetting
 - Interpret network diagrams
 - Determine the path between two hosts across a network
 - Describe the components required for network and internet communications
 - Describe the operation and benefits of using private and public IPaddressing
- INRODUCTION TO ROUTER, ROUTING PROTOCOLS
 - Describe basic routing concepts(including:router lookup process)
 - Describe the operation of Cisco routers(including:router boot up process,POST,router components
 - Manage IOS configuration files(including:save,edit,upgrade,restore)
 - Manage Cisco IOS
 - Different Modes of Router
 - Perform and verify routing configuration tasks for a static or default route given specific routing requirments
 - Configure, verify and troubleshoot RIPv2
 - Access and utlize the router to set basic parameters
 - Connect, configure and verify operation status of device interface
 - Verify device configuration and network connectivity using ping,traceroute, telnet, or other utilities
 - Configure, verify and trouble shoot EIGRP
 - Configure, verify and troubleshoot OSPF(Single Area)
 - Verify network connectivity (including: using ping, traceroute and telnet)
 - Verify router hardware and software operation using SHOW & DEBUG

MINDMOVERS INFO SOLUTIONS

• Implement basic router security

WAN Protocols

- Implement and verify WAN links
- Describe different methods for connecting to a WAN
- Configure and verify a basic WAN serial connection
- Configure and verify Frame Relay on Cisco routers
- Troubleshoot WAN implementation issues
- Configure and verify a PPP connection between Cisco routers

ACCESS CONTROL LIST AND NAT

- Implement, verify and troubleshoot NAT and ACLs in a medium-size Enterprise branch office network
- Describe the purpose and types of ACLs
- Configure and apply an ACLs based on network filtering requirements
- Configure and apply an ACLs to limit telnet
- Verify and monitor ACLs in a network environment
- Explain the basic operation of NAT
- Configure NAT for given network requirements

Switching

- Explain network segmentation and basic traffic management concepts
- Verify network status and switch operation using basic utilities(including:ping, trace route, telnet, arp, ipconfig)
- SHOW & DEBUG commands
- Configure, verify and troubleshoot trunking on Cisco switches
- Configure, verify and troubleshoot interVLAN routing
- Configure, verify, and troubleshoot VTP
- Interpret the output of various show and debug commands to verify the operational status of a Cisco switched network Implement basic switch security (including:port security, trunk access, management vlan other than vlan 1, etc)
- Backup & Restoring
- Backup of Start-up configuration
- Backup of Running configuration
- Backup of Cisco router IOS
- Restoring Start-up Configuration

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- Restoring Running Configuration
- Restoring IOS of a Cisco router
- Password Recovery
- Troubleshooting of Cisco Routers