



RUSHIL TECHNOLOGIES

A unit of

Krishko telecom services pvt.ltd

An ISO 9001:2008 certified company

MCSE COURSE CONTENT

Network Fundamentals

- ✓ Local Area Networks (LANs) & Wide Area Networks (WANs)
- ✓ Hosts, Workstations, and Servers
- ✓ Client Server Architectures

Physical Topologies including:

- ✓ Bus
- ✓ Star
- ✓ Ring
- ✓ Mesh
- ✓ Wireless

Physical Media including:

- ✓ Coaxial Cable (Thicknet and Thinnet)
- ✓ Twisted Pair
- ✓ Fiber Optic
- ✓ Connectivity Devices (Bridge, Router, Gateways, Modems, NICs, Hubs, Switches)

The OSI Model

- ✓ The Physical Layer
- ✓ The Data Link Layer
- ✓ The Network Layer
- ✓ The Transport Layer
- ✓ The Session Layer
- ✓ The Presentation Layer
- ✓ The Application Layer
- ✓ Networking Protocols (TCP/IP, IPX/SPX, NetBEUI, and AppleTalk)

TCP/IP

- ✓ Introducing TCP/IP
- ✓ Transmission Control Protocol (TCP)
- ✓ Internet Protocol (IP)
- ✓ Application Protocols
- ✓ Ports and Sockets
- ✓ Explaining IP addressing
- ✓ Name Resolution Methods:
- ✓ Internet Domain Organization
- ✓ Hosts
- ✓ DNS
- ✓ WINS
- ✓ Configuring TCP/IP on Windows Workstations

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TCP/IP Utilities

- ✓ Address Resolution Protocol (ARP)
- ✓ net stat & nbtstat
- ✓ FTP & Telnet
- ✓ ping & tracert
- ✓ winipcfg & ipconfig
- ✓ nslookup

Network Operating Systems Novel Netware Features

- ✓ Novel Netware
- ✓ Novel Netware Architecture
- ✓ Novel Netware Versions
- ✓ Novel Netware Directory Services
- ✓ Novel Netware Client Software
- ✓ Windows NT
- ✓ Windows NT Features & NT Architecture
- ✓ Windows NT Versions
- ✓ Windows NT Directory Services
- ✓ Unix Flavors
- ✓ Linux, Solaris, Unix
- ✓ Macintosh OS

Network Installation and Upgrades

- ✓ Before installing new hardware or software
- ✓ Network Components Course Outline

Network Hardware Installation

- ✓ Network connectors
- ✓ Installing a NIC

Configuring Workstations and Using Installation Tools

- ✓ Configuring a Windows 9X & 2000 Clients
- ✓ Configuring a Netware Client
- ✓ Network Installation Tools

WAN and Remote Access

- ✓ Remote Access Connection Configurations Requirements



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Remote Access Connection Methods

- ✓ Remote Access Connection Methods
- ✓ PSTN or POTS
- ✓ ISDN
- ✓ DSL
- ✓ T-Series
- ✓ ATM
- ✓ FDDI

Remote Access Protocols

- ✓ SLIP
- ✓ PPP
- ✓ PPTP
- ✓ RAS
- ✓ ICA

Network Access and Security

- ✓ Client Selection
- ✓ Managing User Accounts

Firewalls, and DOD Security Standards

- ✓ Firewalls
- ✓ Attacks and Defense
- ✓ Department of Defense Security Standards Course Outline

Protecting Data and General Security Procedures

- ✓ Encryption
- ✓ Private Key Encryption
- ✓ Public Key Encryption
- ✓ Security Policies
- ✓ Fault Tolerance and Disaster Recovery.
- ✓ Assessing fault tolerance and disaster recovery needs.
- ✓ Power management issues

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Firewalls, and DOD Security Standards

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- ✓ Attacks and Defense
- ✓ Department of Defense Security Standards Course Outline

Protecting Data and General Security Procedures

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Hard Drives and Other Backup Methods

- ✓ Disk System Fault Tolerance
- ✓ Backup Plans

Virus Software and Software Patches.

- ✓ Virus Protection
- ✓ Software Patches

Network Troubleshooting.

- ✓ Narrowing down the problem

Network + Troubleshooting Steps

- ✓ Troubleshooting Steps
- ✓ Establish Symptoms
- ✓ Identify the Affected Area
- ✓ Establish What has Changed
- ✓ Select the Most Probably Cause
- ✓ Implement a Solution
- ✓ Test the Result
- ✓ Recognize the Potential Effects of the Solution
- ✓ Document the Solution

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Tips and Resource Recommendations

- ✓ Troubleshooting Resources
- ✓ Troubleshooting Tips

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