



PANYA TECHNOLOGIES

Technology to Live...

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Computer Networking

Course Pre-requisites:

Delegates should be experienced technical staffs who have a sound knowledge of PC Hardware and operating systems. Ideally they will have passed both A+ Certification Exams or have equivalent knowledge.

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 (Thick net and Thin net)
- ✦ 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

TCP/IP Utilities

- ✦ Address Resolution Protocol (ARP)
- ✦ Net stat & nbtstat
- ✦ FTP & Telnet
- ✦ Ping & tracer
- ✦ 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 Content continued

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

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
- ✦ Passwords

Firewalls and Dodd Security Standards

- ✦ Firewalls
- ✦ Attacks and Defense
- ✦ Department of Defense Security Standards

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