

Network+ Certification, 2005 Objectives, CompTIA Press Edition + MeasureUp & CertBlaster, 2nd Edition

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Prerequisites: CompTIA A+ certification or equivalent experience recommended

What's in Network+ Certification, 2005 Objectives, CompTIA Press Edition + MeasureUp & CertBlaster, 2nd Edition:

This ILT Series course is aimed at network system administrators who are preparing for CompTIA's Network+ certification exam (2005 objectives). Based on Windows Server 2003, this course covers the full range of skills and concepts students need to learn, such as basic networking concepts and configurations, the OSI model, working with network-related hardware, network configuration with TCP/IP, network operating system basics, fault tolerance and backup issues, and troubleshooting hardware and software problems. Comes with MeasureUp and CertBlaster exam prep software.

Topic-Level Outline

Unit 1 : Basic networking concepts

*Topic A: * Networking fundamentals*

- A-1: Discussing network types
- A-2: Discussing network operating systems

*Topic B: * Types of servers*

- B-1: Discussing fax servers and CD servers
- B-2: Discussing e-mail, print and other servers

*Topic C: * Topologies*

- C-1: Discussing topologies

*Topic D: * Planning in network design*

- D-1: Discussing planning in network design

Unit 2 : The OSI Model

*Topic A: * Introduction to the OSI model*

- A-1: Introducing the OSI model
- A-2: Discussing the layers of the OSI model

Unit 3 : Network adapters

*Topic A: * Network adapter configuration*

- A-1: Discussing the properties of a network adapter
- A-2: Discussing network adapter configuration
- A-3: Configuring basic network components
- A-4: Discussing NDIS and ODI

*Topic B: * Troubleshooting network adapter problems*

- B-1: Discussing general troubleshooting tips
- B-2: Identifying network adapter problems

Unit 4 : Introducing protocols

*Topic A: * Introduction to protocols*

- A-1: Identifying protocols

*Topic B: * Channel access methods*

- B-1: Discussing Ethernet methods
- B-2: Discussing Token Ring methods
- B-3: Discussing wireless communications

*Topic C: * Transport protocols*

- C-1: Discussing transport protocols

*Topic D: * Remote access protocols*

- D-1: Discussing remote access protocols

*Topic E: * Security protocols*

- E-1: Discussing security protocols

Unit 5 : Network cabling and devices

*Topic A: * Network communication methods*

- A-1: Discussing communication methods

*Topic B: * Cables and connectors*

- B-1: Discussing twisted pair cabling
- B-2: Terminating with an RJ-45 connector
- B-3: Discussing FireWire

*Topic C: * Coaxial and fiber optic cables*

- C-1: Terminating with a BNC connector
- C-2: Discussing fiber optic cables

*Topic D: * Ethernet and Token Ring devices*

- D-1: Discussing Ethernet devices
- D-2: Discussing Token Ring and other devices

Unit 6 : Internetworking components

*Topic A: * Introduction to internetworking*

- A-1: Discussing internetworking basics

*Topic B: * Introducing bridges, routers and switches*

- B-1: Identifying types of bridges and switches
- B-2: Discussing routers and brouters

B-3: Understanding routing protocols

Unit 7 : Remote and WAN connectivity

*Topic A: * Introduction to remote connectivity*

- A-1: Discussing the features of POTS and ISDN
- A-2: Discussing cable modem, xDSL, satellite and wireless access methods

*Topic B: * Installing and configuring a modem*

- B-1: Installing and configuring a new modem

*Topic C: * Remote Access Service (RAS) and remote access clients*

- C-1: Discussing RRAS
- C-2: Discussing remote access clients

*Topic D: * WAN connectivity*

- D-1: Discussing WAN connectivity

Unit 8 : Troubleshooting hardware components

*Topic A: * Introduction to troubleshooting*

- A-1: Handling environmentally caused problems
- A-2: Discussing causes of network trouble

*Topic B: * Introduction to common network tools*

- B-1: Identifying network tools

*Topic C: * The science of troubleshooting*

- C-1: Discussing troubleshooting techniques
- C-2: Discussing troubleshooting documentation
- C-3: Identifying troubleshooting tools

Unit 9 : TCP/IP fundamentals

*Topic A: * Evolution of TCP/IP*

- A-1: Discussing the history of TCP/IP
- A-2: Discussing RFCs
- A-3: Discussing the Internet and supported systems

*Topic B: * TCP/IP fundamentals*

- B-1: Discussing the architectural model of TCP/IP
- B-2: Discussing the TCP/IP suite
- B-3: Identifying ports and sockets

Unit 10 : TCP/IP addressing and subnetting

*Topic A: * IP addressing*

- A-1: Discussing IP addresses and conversions
- A-2: Discussing IP addressing
- A-3: Discussing IP addressing methods

*Topic B: * Subnetting and special addressing*

- B-1: Discussing subnet masks
- B-2: Discussing special addressing and private networks

*Topic C: * TCP/IP installation and configuration*

- C-1: Configuring TCP/IP

Unit 11 : Name resolution

*Topic A: * The HOSTS file and Domain Name System*

- A-1: Discussing HOSTS files
- A-2: Discussing Domain Name System

*Topic B: * NetBIOS name resolution*

- B-1: Discussing NetBIOS
- B-2: Discussing the LMHOSTS file and WINS

Unit 12 : Firewalls and proxies

*Topic A: * Firewalls*

- A-1: Discussing firewalls

*Topic B: * Proxy servers*

- B-1: Discussing proxy servers

Unit 13 : Troubleshooting network connectivity

*Topic A: * TCP/IP troubleshooting tools*

- A-1: Discussing ARP, HOSTNAME, IPCONFIG, and WINIPCFG

- A-2: Discussing IFCONFIG, NBTSTAT, and NETSTAT

- A-3: Discussing NSLOOKUP, DIG, TRACERT, PING, and ROUTE

*Topic B: * Telnet*

- B-1: Discussing Telnet

*Topic C: * File Transfer Protocol*

- C-1: Discussing File Transfer Protocol

*Topic D: * Troubleshooting examples*

- D-1: Troubleshooting sample problems

Unit 14 : Identifying network operating system features

*Topic A: * Microsoft Windows*

- A-1: Discussing Windows NT
- A-2: Discussing Windows 2000

- A-3: Discussing Windows Server 2003

*Topic B: * Novell NetWare*

- B-1: Discussing the features of NetWare

*Topic C: * UNIX, Linux, and Mac OS X Server*

- C-1: Discussing UNIX
- C-2: Discussing Linux
- C-3: Discussing Mac OS X Server

*Topic D: * AppleShare IP*

- D-1: Discussing AppleShare IP

Unit 15 : Network clients

*Topic A: * Network client review*

- A-1: Discussing Windows network clients
- A-2: Discussing Macintosh and Novell NetWare clients

Unit 16 : Directory services

*Topic A: * Windows networking concepts*

- A-1: Discussing Windows security models

*Topic B: * Directory services planning and implementation*

- B-1: Planning and implementing directory services

*Topic C: * Introduction to Active Directory*

- C-1: Discussing Active Directory
- C-2: Discussing components of Active Directory
- C-3: Installing Active Directory

- C-4: Discussing Active Directory naming standards and physical structure

*Topic D: * New Active Directory features in Windows Server 2003*

- D-1: Discussing deployment and management
- D-2: Discussing performance and dependability

*Topic E: * Windows NT domains*

- E-1: Discussing Windows NT and trust relationships
- E-2: Discussing Windows NT domains

*Topic F: * Novell Directory Services/eDirectory*

- F-1: Discussing NDS/eDirectory

Unit 17 : Accessing and managing resources in a Windows network

*Topic A: * Creating and managing Active Directory user accounts*

- A-1: Creating user accounts
- A-2: Using Account Policies

- A-3: Resolving logon issues

Topic B: * Introduction to group accounts

B-1: Exploring group types

B-2: Exploring group scopes

Topic C: * The NTFS file system and permissions

C-1: Identifying file system types

C-2: Discussing NTFS permissions

Topic D: * Working with shared folders

D-1: Discussing shared folders

Topic E: * Introduction to printing concepts

E-1: Discussing Windows 2000/Server 2003 printing concepts

E-2: Working with the Print Spooler server

Unit 18 : Monitoring and troubleshooting a

Windows server

Topic A: * Introduction to server monitoring

A-1: Using Task Manager to control applications

A-2: Using Task Manager to manage applications and processes

A-3: Using Task Manager to monitor performance

Topic B: * Troubleshooting with Event Viewer

B-1: Viewing Event Viewer application and system log events

Topic C: * Working with the Performance console

C-1: Discussing System Monitor and Performance Logs and Alerts

Unit 19 : Managing and troubleshooting resources

in a NetWare network

Topic A: * User and group management

A-1: Discussing user and group management

Topic B: * Rights and trustee assignments

B-1: Discussing file system security

B-2: Discussing rights and trustee assignments

Topic C: * User account restrictions

C-1: Discussing user account restrictions

Topic D: * NDS/eDirectory context

D-1: Discussing NDS/eDirectory context

Topic E: * NetWare log files

E-1: Discussing SYS\$LOG.ERR and VOL\$LOG.ERR

E-2: Discussing ABEND.LOG and CONSOLE.LOG

Topic F: * Using monitoring and management tools

F-1: Discussing MONITOR.NLM

F-2: Discussing the Available Options menu

F-3: Discussing NetWare Remote Manager

F-4: Discussing the VREPAIR utility and NSS volumes

Unit 20 : Fault tolerance and disaster recovery

Topic A: * System fault tolerance

A-1: Discussing RAID

A-2: Discussing disk duplexing

A-3: Discussing disk striping with parity

A-4: Managing disk configuration

Topic B: * Replication

B-1: Discussing replication

B-2: Managing NDS/eDirectory partitions

B-3: Discussing NDS/eDirectory replicas

B-4: Discussing replica rings

Topic C: * Backup and UPS

C-1: Discussing backup schemes

C-2: Discussing removable media

C-3: Discussing backup storage

C-4: Discussing UPS

Unit 21 : Routine maintenance

Topic A: * Keeping NOS software up to date

A-1: Discussing software patches and updates

Topic B: * Virus protection

B-1: Discussing viruses

B-2: Discussing virus protection

Unit 22 : Troubleshooting

Topic A: * Assessing and responding to problems

A-1: Discussing problem prioritization

Topic B: * Troubleshooting procedures

B-1: Discussing troubleshooting procedures

Topic C: * Troubleshooting scenarios

C-1: Troubleshooting the inability of a user to access a shared resource

C-2: Troubleshooting access to an account

C-3: Troubleshooting access permission conflicts in directories and subdirectories

C-4: Troubleshooting hardware problems

C-5: Troubleshooting network problems relating to remote connectivity issues

C-6: Troubleshooting a connectivity issue to a RAS server

C-7: Troubleshooting a Linux workstation in a Windows Server 2003 network

C-8: Troubleshooting a network problem relating to adding or removing services

Appendix A : Installing NetWare 6.5

Topic A: * Basic NetWare server installation

Appendix B : Installing Windows 2000 Server

Topic A: * Installing Windows 2000 Server

Appendix C : Certification exam objectives map

Topic A: * Comprehensive exam objectives