

Microsoft Certified Systems Engineer (MCSE) candidates on the Microsoft Windows Server 2003 track are required to satisfy the following requirements:

Core Exams (6 Exams Required)

Four networking system exams

One client operating system exam

One design exam

Elective Exams (1 Exam Required)

Together with the core exams, the elective exams provide a valid and reliable measure of technical proficiency and expertise in solution design and implementation. MCSE candidates should also have at least one year of experience implementing and administering network operating systems and desktop operating systems.

CORE EXAMS: NETWORKING SYSTEM

Exam 70-290: Managing and Maintaining a Microsoft Windows Server 2003

Exam 70-291: Implementing, Managing and Maintaining a Microsoft Windows Server 2003 Network Infrastructure.

Exam 70-293: Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure.

Exam 70-294: Planning, Implementing and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure.

CORE EXAMS: CLIENT OPERATING SYSTEM

Exam 70-270: Installing, Configuring and Administering Microsoft Windows XP Professional.

CORE EXAMS: DESIGN

Exam 70-297: Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure.

ELECTIVE EXAM

Exam 70-284: Implementing and Managing Microsoft Exchange Server 2003.

Microsoft XP Professional

Exam Code: 70-270

Duration: 16 Hrs

General

Introduction to Windows XP Professional
Version Differences/New Features
Windows Installer
Customizing Windows XP Professional

Installation

Installation Prerequisites/HCL
Installation Methods
Attended
Unattended
Over the Network
Upgrading previous versions
Remote Installation Services
Application Installation
Hardware Installation
Device Drivers
Multiple Boot Configurations

Management

Setting up & Managing User
Setting up & Managing Group Accounts
MMC
Services
Service Packs
Managing Data Storage
Disk Management

File Systems

DFS
EFS
Compression FAT and FAT32
NTFS
Offline Folders

System Maintenance and Optimization

De fragmentation
Performance
Scheduled Tasks
Windows Update Manager

Security

Authentication
File and Share Security
Securing Resources
NTFS Permissions
Administering Shared Folders and Resources
Auditing Resources and Events
Disk Quota
Firewall

Printers

Installing printer locally
Accessing a Remote printer
Implementing Security to printers

Networking

File and Printer Sharing
Mobile Computing
Understanding DNS
Understanding TCP/IP
Remote Desktop Connection
Terminal Service Web Connection
Internet Connection Sharing and Firewall Configuration

Troubleshooting

Advanced Recovery Options
Backup & Restore
Domain Logon and Authentication
Hardware and Driver Issues
Using Files and Setting Transfer wizard

Managing & Maintaining a Microsoft Windows 2003 Server Environment

Exam Code: 70-290

Duration: 24 Hrs

General

Introduction to Windows 2003 Server
Version Differences/New Features
Windows Installer
Customizing Windows 2003 Server

Installation

Basic Attended
Unattended Installation
Remote Installations Service
Upgrading from Windows 2000

Active Directory & DNS

Configuring Directory Services
Directory Services Terminology
Domain Administration
Domain Planning
Domains and Forest Structures

Server Administration

User Accounts
Group Accounts
Computer Accounts
Profiles

Disks and File Systems

Administering File Systems, Shares,
Advanced Disk Management,
Distributed and Remote File Systems,
File Systems, Replication, and Fault
Tolerance, Shadows Copies, Disk
Quota
Printers
Installing & Configuring Local Printer
Installing & Configuring Remote Printer,

Using IPP

Security

Configuring Security
Group Policies
Security Templates
Security and Kerberos
Auditing System Resources

Server Configuration

Network Configuration
Remote Desktop Administration
IIS 6.0
Terminal Servers
Terminal Service Web Connection
Internet Connection Sharing
RAID
Performance Monitoring
Performance Tuning

Maintenance

Disaster Recovery
Backup & Restore
Using ASR
Server Optimization
Software and Updates
Storage

Troubleshooting

Boot up failure
Client and Connectivity Problems
Network Problems
Permissions
Print Services Problem

Implementing, Managing and Maintaining a Microsoft Windows Server 2003 Network Infrastructure

Exam Code: 70-291

Duration: 32 Hrs

General

Understanding windows 2003 Networks
OSI Reference Model
Application Layer
Presentation Layer
Session Layer
Transport Layer
Network Layer
Data-Link Layer
Physical Layer

TCP/IP Model

TCP / IP
IP Addressing
Sub netting
Super netting
CIDR
Routing
ICS
NAT

DHCP

Understanding DHCP
DHCP Server
DHCP Clients
DHCP Relay Agents

DNS

Introduction to DNS
DNS Servers

DNS Clients
DNS Records (A, CNAME, PTR, MX,
AAAA, etc.)
Zones, Delegation Zones, Stub Zones
Primary
Secondary
Caching Only
Forwarders
Dynamic DNS

WINS

WINS Overview
WINS Components
WINS Database
Designing a WINS Infrastructure

Advanced Routing Concepts

Static Routing
Dynamic Routing
RIS
OSPF

Remote Access Service

RAS Server
RAS Clients
RADIUS
Virtual Private Network
PPTP
L2TP

Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure

Exam Code: 70-292

Duration: 24 Hrs

Planning a Network

Network Topology

BUS, STAR, RING, MESH, CELLULAR, HYBRID

Network Cables

Co-axial, Twisted Pair, Fiber Optic

Network Devices

Repeaters, Hubs, Switches, Bridges, Routers, Brouters, Modems, etc.,

Transmission Media Connectors

T-BNC, RJ –11, RJ-45, etc.,

Cabling Standards

Jack Panel, I/O ports, Structured Cabling Guidelines.

Locating Network Resources

Determining Location Criteria
Locating Workstation, Peripherals, Cables,
Connectivity Devices, Servers

Planning a TCP/IP Network Infrastructure

Determining IP Addressing Requirements
Using Public and Private Addresses
Using Routers & Switches
Planning for internet connectivity
Planning, Designing and Implementing the
Given Scenarios

Planning for Security Infrastructure

Security Basics
Security Updates
Security Policies
Securing a Wireless Network

Designing a Security Infrastructure

Cryptography
Port Blocking
Packet Filtering
Network Monitoring

Installing, Configuring and Maintaining

Multiple Web Site (IP Based and Hostname Based)
Multiple FTP Site
Administration Web Site
Telnet Server

Creating and Managing Digital Certificates

Enterprise
Stand alone
Web Server Certificate
Web Browser Certificate
E-mail Certificate

Maintaining Server Availability

Network Load Balancing
Clustering

Planning a Secure Baseline Installation

Deploying Security Configurations
Securing Network Communications using IP Sec

**Planning, Implementing & Maintaining a Microsoft Windows Server 2003
Active Directory Infrastructure**
Exam Code: 70-294
Duration: 24 Hrs

General

Introduction to ADS
Active Directory Objects & Components
The Global Catalog
Object Naming
DNS

Active Directory Concepts

Forests
Domain Trees
Domain Controllers
Additional Domain Controllers
Child Domain Controllers
Sites
Replication
Trust Relation Ship

**Installing & Configuring Active
Directory**

Creating Multiple Domains, Trees and
Forests
Configuring Sites and Managing
Replication
Configuring Intersite Replication
Renaming and Restructuring Domains
Renaming Domain Controllers
Managing Operation Master Roles
Managing Trust Relationship

Disaster Recovery

Backing up ADS
Restoring ADS
Using ASR

Administering Active Directory

User Accounts
User Profiles and Home Folder
Group Accounts
OU Structure
Command Line Administration

Group Policy

Understanding Group Policy
Group Policy Settings
Administrative Templates
Resultant Set of Policy (RSOP)
Creating, Filtering, Linking, Modifying &
Removing GPO
Deploying Software Using GPO
Setting up a SDP

Administering Security

Locating & Controlling Access to Active
Directory Objects
Delegating Administrative Control
Using Security Templates
Using Security Configuration and
Analysis
Implementing Audit Policy, Software
Restriction Policies

**Managing Active Directory
Performance**

Service Logs & System Monitor
Performance Logs & Alters
Optimizing and Troubleshooting ADS
Using windows 2003 Support Tools

Designing Microsoft Windows Server 2003 Active Directory Infrastructure

Exam Code: 70-297

Duration: 16 Hrs

Introduction to Active Directory & Network Infrastructure

Active Directory Overview
DNS Overview
TCP/IP Overview
Remote Access Overview

Analyzing and Existing Infrastructure

Analyzing the Company
Analyzing the Existing Network Topology
Analyzing the Existing Directory Structure

Planning an Active Directory Structure

Designing a Forest & Domain Model
Defining a Naming Strategy

Designing an Administrative Security Structure

Designing an OU Structure
Planning an Account Strategy
Designing a GPO Implementation

Designing a Site Plan

Designing a Site Topology
Planning a Domain Controllers
Planning a Replication Strategy
Designing a Migration Path

Designing a DNS Structure

Analyzing the Existing DNS Implementation
Designing a DNS Name Resolution Strategy
Designing a DNS Implementation
Designing a DNS Service Placement Strategy

Designing a WINS Structure

Understanding WINS
Designing a WINS Infrastructure
Designing a WINS Replication Strategy

Designing a Network and Routing Infrastructure

Creating an IP Addressing Scheme
Designing a Perimeter Network
Creating a DHCP Strategy

Designing Internet Connectivity

Identifying Redundancy Requirements
Identifying Bandwidth Requirements
Designing NAT

Designing a Remote Access Strategy

Designing Remote Access Strategy
Designing the Remote Access Infrastructure
Designing Security for Remote Access Users

Microsoft Exchange 2003 Server Implementation and Administration

Exam Code: 70-284

Duration: 40 Hrs

General

Understanding Messaging System
Introduction to Microsoft Exchange 2003 Server
Integration with Microsoft Windows 2003 Server
Microsoft Exchange 2003 Server Architecture
Co-existence with previous versions of Exchange Servers
Backward Compatibility and Interoperability

Planning and Installing Exchange 2003 Server

Prerequisite for installing Exchange 2003 Server
Preparing Windows 2003 Server for Exchange 2003 Installation
Testing Exchange 2003 Installation
Installing and Upgrading
Microsoft Exchange 2000 Server to Microsoft Exchange 2003 Server

Microsoft Exchange 2003 Server Client Configuration

Microsoft Outlook Express
Microsoft Outlook
Microsoft Outlook Web Access

Creating and Managing

Microsoft Exchange 2003 Server Configuration
Recipients
Address List
SMTP Transport
Message Routing
POP3
IMAP
HTTP
NNTP
Routing & Administrative Groups

Implementing Advanced Security

Mail Box
Digital Certificates
Public Folder Management & Replication

Disaster Recovery

Microsoft Exchange 2003 Client Side Backup & Restores
Microsoft Exchange 2003 Server Side Backup & Restores
Microsoft Exchange 2003 Server in Clustered Environment
Microsoft Exchange 2003 Server Front End & Back End Configuration
Microsoft Exchange 2003 Server Maintenance & Troubleshooting