



Dear Candidate,

We would like to take this opportunity to thank you for inquiring about our training services here at Brand College. This package has been compiled to provide the information you will need to choose the training program that will be most beneficial for you.

In this package, you will find information on:

- Our organization and its philosophy
- Training programs we offer
- Details on the training program of your inquiry

Every journey begins with a first step. You have already taken this first step by expressing interest in pursuing an educational program. We would welcome the opportunity to be your partner on this journey and help you complete your journey successfully.

Brand College was founded in direct response to the overwhelming demand for qualified computer professionals in today's information age. Armed with extensive background in information technology consulting and training, we are committed to providing students with high quality education that is relevant for today's rapidly changing IT environment. Our team is comprised of certified engineers and trainers who, as a group, have accumulated more than fifty years of practical experience in the field of information technology. Our goal is to maximize each student's educational experience by ensuring that entry-level students are not overwhelmed while more experienced students remain challenged.

Brand College currently offers several certification programs including:

- **CompTIA A+** PC Hardware Technician
- **CompTIA Linux+** Linux Certified Professional
- **MCITP** Microsoft Certified IT Professional
- **CCNA** Cisco Certified Network Associate
- **CCNA Voice** Cisco Certified Network Associate Voice
- **CCNP** Cisco Certified Network Professional
- **CCSP** Cisco Certified Security Professional
- **CCVP** Cisco Certified Voice Professional
- **CNTE** Certified Network Technologies Expert
- **CDNS** Certified Desktop and Network Specialist
- **CLWS** Certified LAN and WAN Specialist
- **CMNS** Certified Multi-Platform Network Specialist
- **CCNE** Cisco Certified Network Expert

Once again, thank you for your inquiry and we look forward to hearing from you in the very near future. Should you have any questions, please do not hesitate to contact our Admissions department by e-mail at info@brandcollege.us or by phone at (818) 550-0770.

Sincerely,

Brand College

Certified Multi-Platform Network Specialist (CMNS)

This program is designed to provide students with the knowledge required for entry-level careers in computer networking, with an emphasis on Microsoft operating systems including Windows Vista and Windows Server 2008. Students will be guided through the features of the Microsoft operating systems will learn how implement, manage and maintain both workstations and servers in a Microsoft Windows networking environment. Additional topics include network infrastructure services that are required to support a Windows network including Active Directory, Name Resolution, TCP/IP and IP assignment, Windows Security, Remote Access, and Microsoft Exchange 2007.

This program is also designed to enhance the competencies of the Linux professional. Students will be introduced to multiple Linux distributions and perform installations of three or more distributions, including Red Hat Linux. Basic operational concepts will be taught and practiced. Students will implement security features provided by the Linux operating system. Upon completion of this course, students will have a solid understanding of the Linux operating system and be able to perform basic troubleshooting tasks. Both workstation and server implementations will be covered. This program will provide students with the skills and knowledge necessary to pass the CompTIA Linux+ certification exam.

This program will provide students with the skills and knowledge necessary to complete the Microsoft Certified IT Professional (MCITP) and the CompTIA Linux+ certification exams.

- Certification program
- 576 Contact Hours, 36 Credit Hours, 72 Weeks

TERM 1

Course No.	Course Name	Quarter Credit Hours	Clock Hours
MCS100	Windows I	3	48
MCS110	Windows II	3	48
Total		6	96

TERM 2

Course No.	Course Name	Quarter Credit Hours	Clock Hours
MCS120	Windows III	3	48
MCS130	Windows IV	3	48
Total		6	96

TERM 3

Course No.	Course Name	Quarter Credit Hours	Clock Hours
MCS140	Windows V	6	96
Total		6	96

TERM 4

Course No.	Course Name	Quarter Credit Hours	Clock Hours
MCS150	Windows VI	3	48
MCS160	Windows VII	3	48
Total		6	96

TERM 5

Course No.	Course Name	Quarter Credit Hours	Clock Hours
MCS170	Windows VIII	3	48
MCS180	Windows VIII	3	48
Total		6	96

TERM 6

Course No.	Course Name	Quarter Credit Hours	Clock Hours
LIN100	Linux I	6	96
Total		6	96

Prerequisites

Candidates wishing to enter this course should have completed the A+ PC Hardware Technician coursework or have commensurate experience with PC hardware and basic operating system concepts.

Type of Document Received Upon Graduation

Upon successful completion of all program requirements, each student will be awarded a Certificate of Completion.

Certification Tests

All certification exams are scored on a pass/fail basis. Depending on the specific exam, a correct response to 75% - 80% of the questions will be required to achieve a passing score. Students are encouraged to take exams immediately following completion of the corresponding course.

CMNS Program Details

COURSE MCS100

Title: Planning and Administering Windows Server 2008 Servers

Exam: Microsoft Exam 70-646

Course Description

This instructor-led course provides students with the knowledge and skills to plan, manage, and maintain Windows Server 2008 servers. This course is intended for Windows Server 2008 Technology Specialists, in Network Infrastructure and Active Directory, who are interested in learning professional level Server Administrator skills to plan, manage, and maintain Windows Server 2008 servers.

Course Objectives

This course will cover the following subjects:

- Plan a Windows Server 2008 deployment
- Plan and implement server commissioning and decommissioning for Windows Server 2008
- Plan the installation of server roles for Windows Server 2008
- Create a configuration change plan for Windows Server 2008
- Plan and implement Windows Server 2008 security
- Manage application versioning in Windows Server 2008
- Plan for a high-availability Windows Server 2008 deployment
- Plan a server update maintenance schedule for Windows Server 2008
- Maintain a Distributed File System (DFS) in Windows Server 2008
- Define server backup requirements and policies for Windows Server Backup
- Plan and implement a Windows Server 2008 restore
- Plan Windows Server 2008 monitoring
- Troubleshoot hardware issues
- Troubleshoot software issues
- Troubleshoot network issues

COURSE MCS110

Title: Configuring and Troubleshooting a Windows Server 2008 Network Infrastructure

Exam: Microsoft Exam 70-642

Course Description

This instructor-led course provides students with the knowledge and skills to configure and troubleshoot a Windows Server 2008 network infrastructure. Students will learn to implement and configure secure network access and implement fault tolerant storage technologies. Students will gain an understanding of the network technologies most commonly used with Windows Server 2008 and IP-enabled networks. Students will also learn how to secure servers and maintain update compliance.

Course Objectives

This course will cover the following subjects:

Configuring IP Addressing and Services (24 percent)

- Configure IPv4 and IPv6 addressing. May include but is not limited to: configure IP options, subnetting, supernetting, alternative configuration
- Configure Dynamic Host Configuration Protocol (DHCP). May include but is not limited to: DHCP options, creating new options, PXE boot, default user profiles, DHCP relay agents, exclusions, authorize server in Active Directory, scopes, server core, and Windows Server Hyper-V
- Configure routing. May include but is not limited to: static routing, persistent routing, Routing Internet Protocol (RIP), Open Shortest Path First (OSPF)
- Configure IPsec. May include but is not limited to: create IPsec policy, IPsec Authentication Header (AH), IPsec Encapsulating Security Payload (ESP)

Configuring Name Resolution (27 percent)

- Configure a Domain Name System (DNS) server. May include but is not limited to: conditional forwarding, external forwarders, root hints, cache-only, server core, WINS and DNS integration, Windows Server virtualization
- Configure DNS zones. May include but is not limited to: DNS Refresh no-refresh, intervals, DNS listserv address (NSLOOKUP), primary/secondary zones, Active Directory integration, Dynamic Domain Name System (DDNS), GlobalNames, SOA refresh
- Configure DNS records. May include but is not limited to: record types, host, pointer, MX, SRV, NS, dynamic updates, Time to Live (TTL)
- Configure DNS replication. May include but is not limited to: DNS secondary zones, DNS stub zones, DNS scavenging interval, replication scope
- Configure name resolution for client computers. May include but is not limited to: DNS and WINS integration, configuring HOSTS file, LMHOSTS, node type, Link-Local Multicast Name Resolution (LLMNR), broadcasting, resolver cache, DNS Server list, Suffix Search order, manage client settings by using group policy

Configuring Network Access (22 percent)

- Configure remote access. May include but is not limited to: dial-up, Remote Access Policy, Network Address Translation (NAT), Internet Connection Sharing (ICS), VPN, Routing and Remote Access Services (RRAS), inbound/outbound filters, configure Remote Authentication Dial-In User Service (RADIUS) server, configure RADIUS proxy, remote access protocols, Connection Manager
- Configure Network Access Protection (NAP). May include but is not limited to: network layer protection, DHCP enforcement, VPN enforcement, configure NAP health policies, IPsec enforcement, 802.1x enforcement, flexible host isolation
- Configure network authentication. May include but is not limited to: LAN authentication by using NTLMv2 and Kerberos, WLAN authentication by using 802.1x, RAS authentication by using MS-CHAP, MS-CHAP v2, and EAP

- Configure wireless access. May include but is not limited to: Set Service Identifier (SSID), Wired Equivalent Privacy (WEP), Wi-Fi Protected Access (WPA), Wi-Fi Protected Access 2 (WPA2), ad hoc versus infrastructure mode, group policy for wireless
- Configure firewall settings. May include but is not limited to: incoming and outgoing traffic filtering, Active Directory account integration, identify ports and protocols, Microsoft Windows Firewall versus Windows Firewall with Advanced Security, configure firewall by using group policy, isolation policy

Configuring File and Print Services (13 percent)

- Configure a file server. May include but is not limited to: file share publishing, Offline Files, share permissions, NTFS permissions, encrypting file system (EFS)
- Configure Distributed File System (DFS). May include but is not limited to: DFS namespace, DFS configuration and application, creating and configuring targets, DFS replication
- Configure shadow copy services. May include but is not limited to: recover previous versions, set schedule, set storage locations
- Configure backup and restore. May include but is not limited to: backup types, backup schedules, managing remotely, restoring data
- Manage disk quotas. May include but is not limited to: quota by volume or quota by user, quota entries, quota templates
- Configure and monitor print services. May include but is not limited to: printer share, publish printers to Active Directory, printer permissions, deploy printer connections, install printer drivers, export and import print queues and printer settings, add counters to Reliability and Performance Monitor to monitor print servers, print pooling, print priority

Monitoring and Managing a Network Infrastructure (14 percent)

- Configure Windows Server Update Services (WSUS) server settings. May include but is not limited to: update type selection, client settings, Group Policy object (GPO), client targeting, software updates, test and approval, disconnected networks
- Capture performance data. May include but is not limited to: Data Collector Sets, Performance Monitor, Reliability Monitor, monitoring System Stability Index
- Monitor event logs. May include but is not limited to: custom views, application and services logs, subscriptions, DNS log
- Gather network data. May include but is not limited to: Simple Network Management Protocol (SNMP), Baseline Security Analyzer, Network Monitor

COURSE MCS120

Title: Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services & Configuring and Troubleshooting Identity and Access Solutions with Windows Server 2008 Active Directory

Exam: Microsoft Exam 70-640

Course Description

This instructor-led course provides to teach Active Directory Technology Specialists with the knowledge and skills to configure Active Directory Domain Services in a distributed environment, implement Group Policies, perform backup and restore, and monitor and troubleshoot Active Directory related issues. This course also provides the knowledge and skills that IT Professionals need to configure identity and access solutions with Windows Server 2008 Active Directory.

Course Objectives

This course will cover the following subjects:

Configuring Domain Name System (DNS) for Active Directory (16 percent)

- Configure zones. May include but is not limited to: Dynamic DNS (DDNS), Non-dynamic DNS (NDDNS), and Secure Dynamic DNS (SDDNS), Time to Live (TTL), GlobalNames, Primary, Secondary, Active Directory Integrated, Stub, SOA, zone scavenging, forward lookup, reverse lookup
- Configure DNS server settings. May include but is not limited to: forwarding, root hints, configure zone delegation, round robin, disable recursion, debug logging, server scavenging
- Configure zone transfers and replication. May include but is not limited to: configure replication scope (forestDNSzone, domainDNSzone), incremental zone transfers, DNS Notify, secure zone transfers, configure name servers, application directory partitions

Configuring the Active Directory infrastructure (25 percent)

- Configure a forest or a domain. May include but is not limited to: remove a domain, perform an unattended installation, Active Directory Migration Tool (ADMT) v3 (pruning and grafting), raise forest and domain functional levels, interoperability with previous versions of Active Directory, alternate user principal name (UPN) suffix, forestprep, domainprep
- Configure trusts. May include but is not limited to: forest trust, selective authentication versus forest-wide authentication, transitive trust, external trust, shortcut trust, SID filtering
- Configure sites. May include but is not limited to: create Active Directory subnets, configure site links, configure site link costing, configure sites infrastructure
- Configure Active Directory replication. May include but is not limited to: Distributed File System, one-way replication, bridgehead server, replication scheduling, configure replication protocols, force intersite replication
- Configure the global catalog. May include but is not limited to: Universal Group Membership Caching (UGMC), partial attribute set, promote to global catalog
- Configure operations masters. May include but is not limited to: seize and transfer, backup operations master, operations master placement, Schema Master, extending the schema, time service

Configuring additional Active Directory server roles (9 percent)

- Configure Active Directory Lightweight Directory Service (AD LDS). May include but is not limited to: migration to AD LDS, configure data within AD LDS, configure an authentication server, server core, Windows Server 2008 Hyper-V
- Configure Active Directory Rights Management Service (AD RMS). May include but is not limited to: certificate request and installation, self-enrollments, delegation, Active Directory Metadirectory Services (AD MDS), Windows Server virtualization
- Configure the read-only domain controller (RODC). May include but is not limited to: unidirectional replication, Administrator role separation, read-only DNS, BitLocker, credential caching, password replication, syskey, Windows Server virtualization

- Configure Active Directory Federation Services (AD FS). May include but is not limited to: install AD FS server role, exchange certificate with AD FS agents, configure trust policies, configure user and group claim mapping, Windows Server virtualization

Creating and maintaining Active Directory objects (24 percent)

- Automate creation of Active Directory accounts. May include but is not limited to: bulk import, configure the UPN, create computer, user, and group accounts (scripts, import, migration), template accounts, contacts, distribution lists
- Maintain Active Directory accounts. May include but is not limited to: configure group membership, account resets, delegation, AGDLP/AGGUDLP, deny domain local group, local versus domain, Protected Admin, disabling accounts versus deleting accounts, deprovisioning, contacts, creating organizational units (OUs), delegation of control
- Create and apply Group Policy objects (GPOs). May include but is not limited to: enforce, OU hierarchy, block inheritance, and enabling user objects, Group Policy processing priority, WMI, Group Policy filtering, Group Policy loopback
- Configure GPO templates. May include but is not limited to: user rights, ADMX Central Store, administrative templates, security templates, restricted groups, security options, starter GPOs, shell access policies
- Configure GPO templates. May include but is not limited to: user rights, ADMX Central Store, administrative templates, security templates, restricted groups, security options, starter GPOs, shell access policies
- Configure software deployment GPOs. May include but is not limited to: publishing to users, assigning software to users, assigning to computers, software removal
- Configure account policies. May include but is not limited to: domain password policy, account lockout policy, fine-grain password policies
- Configure audit policy by using GPOs. May include but is not limited to: audit logon events, audit account logon events, audit policy change, audit access privilege use, audit directory service access, audit object access

Maintaining the Active Directory environment (13 percent)

- Configure backup and recovery. May include but is not limited to: using Windows Server Backup, backup files and system state data to media, backup and restore by using removable media, perform an authoritative or non-authoritative Active Directory restore, linked value replication, Directory Services Recovery Mode (DSRM) (reset admin password), back up and restore GPOs
- Perform offline maintenance. May include but is not limited to: offline defragmentation and compaction, Restartable Active Directory, Active Directory database storage allocation
- Monitor Active Directory. May include but is not limited to: Network Monitor, Task Manager, Event Viewer, ReplMon, RepAdmin, Windows System Resource Manager, Reliability and Performance Monitor, Server Performance Advisor, RSOP

Configuring Active Directory Certificate Services (13 percent)

- Install Active Directory Certificate Services. May include but is not limited to: standalone versus enterprise, CA hierarchies—root versus subordinate, certificate requests, certificate practice statement
- Configure CA server settings. May include but is not limited to: key archival, certificate database backup and restore, assigning administration roles
- Manage certificate templates. May include but is not limited to: certificate template types, securing template permissions, managing different certificate template versions, key recovery agent
- Manage enrollments. May include but is not limited to: network device enrollment service (NDES), autoenrollment, Web enrollment, smart card enrollment, creating enrollment agents
- Manage certificate revocations. May include but is not limited to: configure Online Responders, Certificate Revocation List (CRL), CRL Distribution Point (CDP), Authority Information Access (AIA)

COURSE MCS130

Title: Installing & Configuring the Windows Vista Operating Systems & Configuring Windows Vista Mobile Computing and Applications

Exam: Microsoft Exam 70-620

Course Description

This instructor-led course provides students with the knowledge and skills to install and configure Windows Vista desktops. It will focus on four main areas: installing, securing, networking, and browsing. By the end of the course, the student will have installed and configured a Windows Vista desktop that is secure, on the network, and ready for browsing. This course also provides students with the knowledge and skills to successfully configure mobile computers and applications that run Windows Vista. It will also provide them with the knowledge and skills necessary to ensure successful configuration of the IT Pro tools and productivity applications that ship with Windows Vista. Students will focus on six main areas: maintenance and optimization tools, media applications, productivity applications, notebook computers, mobile devices, and Tablet PCs.

Course Objectives

This course will cover the following subjects:

Installing and upgrading Windows Vista

- Identify hardware requirements
- Perform a clean installation
- Upgrade to Windows Vista from previous versions of Windows
- Upgrade from one edition of Windows Vista to another edition
- Troubleshoot Windows Vista installation issues
- Install and configure Windows Vista drivers

Configuring and troubleshooting Post-installation system settings

- Troubleshoot post-installation configuration issues
- Configure and troubleshoot Windows Aero
- Configure and troubleshoot parental controls
- Configure Microsoft Internet Explorer

Configuring Windows security features

- Configure and troubleshoot User Account Control
- Configure Windows Defender
- Configure Dynamic Security for Microsoft Internet Explorer 7
- Configure security settings in Windows Firewall

Configuring network connectivity

- Configuring networking by using the Network and Sharing Center
- Troubleshoot connectivity issues
- Configure remote access

Configuring applications included with Windows Vista

- Configure and troubleshoot media applications
- Configure Windows Mail
- Configure Windows Meeting Space
- Configure Windows Calendar
- Configure Windows Fax and Scan
- Configure Windows Sidebar

Maintaining and optimizing systems that run Windows Vista

- Troubleshoot performance issues
- Troubleshoot reliability issues by using built-in diagnostic tools
- Configure Windows Update
- Configure data protection

Configuring and troubleshooting mobile computing

- Configure mobile display settings
- Configure mobile devices
- Configure Tablet PC software
- Configure power options

COURSE MCS140

Title: Designing a Windows Server 2008 Network Infrastructure & Designing a Windows Server 2008 Active Directory Infrastructure and Services & Designing a Windows Server 2008 Application Infrastructure

Exam: Microsoft Exam 70-647

Course Description

This instructor-led course will provide students with an understanding of how to design a Windows Server 2008 Network Infrastructure that meets business and technical requirements for network services. At the end of this course, students will learn how to design an Active Directory Infrastructure in Windows Server 2008. Students will also learn how to design Active Directory forests, domain infrastructure, sites and replication, administrative structures, group policies, and Public Key Infrastructures. In addition students will also learn how to design for security, high availability, disaster recovery, and migrations. Students will learn how to design application infrastructure solutions based on Windows Server 2008 to meet varying business and technical requirements.

Course Objectives

This course will cover the following subjects:

Planning network and application services (23 percent)

- Plan for name resolution and IP addressing. May include but is not limited to: internal and external naming strategy, naming resolution support for legacy clients, naming resolution for directory services, IP addressing scheme, TCP/IP version coexistence
- Design for network access. May include but is not limited to: network access policies, remote access strategy, perimeter networks, server and domain isolation
- Plan for application delivery. May include but is not limited to: application virtualization, presentation virtualization, locally installed software, Web-based applications
- Plan for Terminal Services. May include but is not limited to: Terminal Services licensing, Terminal Services infrastructure

Designing core identity and access management components (25 percent)

- Design Active Directory forests and domains. May include but is not limited to: forest structure, forest and domain functional levels, intra-organizational authorization and authentication, schema modifications
- Design the Active Directory physical topology. May include but is not limited to: placement of servers, site and replication topology, printer location policies
- Design the Active Directory administrative model. May include but is not limited to: delegation, group strategy, compliance auditing, group administration, organizational structure
- Design the enterprise-level group policy strategy. May include but is not limited to: group policy hierarchy and scope filtering, control device installation, authentication and authorization

Designing support identity and access management components (29 percent)

- Plan for domain or forest migration, upgrade, and restructuring. May include but is not limited to: cross-forest authentication, backward compatibility, object migration, migration planning, implementation planning, environment preparation
- Design the branch office deployment. May include but is not limited to: authentication strategy, server security
- Design and implement public key infrastructure. May include but is not limited to: certificate services, PKI operations and maintenance, certificate life cycle management
- Plan for interoperability. May include but is not limited to: inter-organizational authorization and authentication, application authentication interoperability, cross-platform interoperability

Designing for business continuity and data availability (23 percent)

- Plan for business continuity. May include but is not limited to: service availability, directory service recovery

- Design for software updates and compliance management. May include but is not limited to: patch management and patch management compliance, Microsoft Update and Windows Update, security baselines, system health models
- Design the operating system virtualization strategy. May include but is not limited to: server consolidation, application compatibility, virtualization management, placement of servers
- Design for data management and data access. May include but is not limited to: data security, data accessibility and redundancy, data collaboration

COURSE MCS150

Title: Deploying Windows Server 2008 & Configuring & Troubleshooting IIS In Windows Server 2008 & Configuring & Troubleshooting Windows Server 2008 Terminal Services

Exam: Microsoft Exam 70-643

Course Description

This instructor-led course provides students with an understanding of migrating and deploying Windows Server 2008 including installation, configuration, and upgrading. Special emphasis is given to upgrading common server configurations and using the Microsoft Deployment Toolkit. In this course, the students will learn to install, configure, maintain, and troubleshoot an Internet Information Services (IIS) 7.0 Web Server in Windows Server 2008. In addition this course provides students with the knowledge and skills to configure, manage, monitor, and troubleshoot a Terminal Services (TS) environment. The course focuses on configuring of TS core functionality, licensing, Gateway, and Web Access.

Course Objectives

This course will cover the following subjects:

Deploying Servers (24 percent)

- Deploy images by using Windows Deployment Services. May include but is not limited to: Install from media (IFM), configure Windows Deployment Services, capture Windows Deployment Services images, deploy Windows Deployment Services images, server core
- Configure Microsoft Windows activation. May include but is not limited to: install a KMS server, create a DNS SRV record, replicate volume license data
- Configure Windows Server Hyper-V and virtual machines. May include but is not limited to: virtual networking, virtualization hardware requirements, Virtual Hard Disks, migrate from physical to virtual, VM additions, backup, optimization, server core
- Configure high availability. May include but is not limited to: failover clustering, Network Load Balancing, hardware redundancy
- Configure storage. May include but is not limited to: RAID types, Virtual Disk Specification (VDS) API, Network Attached Storage, iSCSI and Fiber Channel storage area networks, mount points

Configuring Terminal Services (32 percent)

- Configure Windows Server 2008 Terminal Services RemoteApp (TS RemoteApp). May include but is not limited to: Configuring Terminal Services Web Access, configuring Terminal Services Remote Desktop Web Connection
- Configure Terminal Services Gateway. May include but is not limited to: certificate configuration, Terminal Services Gateway Manager (TS Gateway Manager), specifying resources that users can access through TS Gateway by using Terminal Services resource authorization policy (TS RAP) and Terminal Services connection authorization policy (TS CAP), Terminal Services group policy
- Configure Terminal Services load balancing. May include but is not limited to: Terminal Services Session Broker redirection modes, DNS registration, setting through group policy
- Configure and monitor Terminal Services resources. May include but is not limited to: allocate resources by using Windows Server Resource Manager, configure application logging
- Configure Terminal Services licensing. May include but is not limited to: deploy licensing server, connectivity between terminal servers and Terminal Services licensing server, recovering Terminal Services licensing server, managing Terminal Services client access licenses (TS CALs)
- Configure Terminal Services client connections. May include but is not limited to: connecting local devices and resources to a session, Terminal Services profiles, Terminal Services home folders, Remote Desktop Connection (RDC), single sign-on, Remote Desktop Snap-In, MSTSC.exe
- Configure Terminal Services server options. May include but is not limited to: logoff, disconnect, reset, remote control, monitor, Remote Desktop Protocol (RDP) permissions, connection limits, session time limits, managing by using GPOs, viewing processes, session permissions, display data prioritization

Configuring a Web Services Infrastructure (30 percent)

- Configure Web applications. May include but is not limited to: directory-dependent, publishing, URL-specified configuration, Microsoft .NET components, for example, .NET and .aspx, configure application pools
- Manage Web sites. May include but is not limited to: migrate sites and Web applications, publish IIS Web sites, configure virtual directories
- Configure a File Transfer Protocol (FTP) server. May include but is not limited to: configure for extranet users, configure permissions
- Configure Simple Mail Transfer Protocol (SMTP). May include but is not limited to: setting up smart hosts, configuring size limitations, setting up security and authentication to the delivering server, creating proper service accounts, authentication, SMTP relay
- Manage Internet Information Services (IIS). May include but is not limited to: Web site content backup and restore, IIS configuration backup, monitor IIS, configure logging, delegation of administrative rights
- Configure SSL security. May include but is not limited to: configure certificates, requesting SSL certificate, renewing SSL certificate, exporting and importing certificates
- Configure Web site authentication and permissions. May include but is not limited to: configure site permissions and authentication, configure application permissions, client certificate mappings

Configuring Network Application Services (14 percent)

- Configure Windows Media server. May include but is not limited to: on-demand replication, configure time-sensitive content, caching and proxy
- Configure Digital Rights Management (DRM). May include but is not limited to: encryption, sharing business rules, configuring license delivery, configuring policy templates
- Configure Microsoft Windows SharePoint Services server options. May include but is not limited to: site permissions, backup, antivirus, configuring Windows SharePoint Services service accounts
- Configure Windows SharePoint Services e-mail integration. May include but is not limited to: configuring a document library to receive e-mail, configuring incoming versus outgoing e-mail

COURSE MCS160

Title: Introduction to Installing and Managing Microsoft Exchange Server 2007 & Monitoring and Troubleshooting Microsoft Exchange Server

Exam: Microsoft Exam 70-236

Course Description

In this instructor-led course, students who are new to Microsoft Exchange Server will learn how to configure and manage a messaging environment in accordance with technical requirements. Students will learn how to install Microsoft Exchange Server 2007 and manage routing, client access, and the backup and restore of databases. They will also learn how to manage addressing and recipient objects such as mailboxes, distribution groups, and contacts. This course also teaches students how to monitor and troubleshoot an Exchange Server 2007 messaging system. Students will learn how to correlate client and server issues and resolve those issues. They will also learn how to monitor systems and create reports from the monitoring data.

Course Objectives

This course will cover the following subjects:

Installing and Configuring Microsoft Exchange Servers

- Prepare the infrastructure for Exchange installation
- Prepare the servers for Exchange installation
- Install Exchange
- Configure Exchange server roles

Configuring Recipients and Public Folders

- Configure recipients
- Configure mail-enabled groups
- Configure resource mailboxes
- Configure public folders
- Move mailboxes
- Implement bulk management of mail-enabled objects

Configuring the Exchange Infrastructure

- Configure connectors
- Configure the antivirus and anti-spam system
- Configure transport rules and message compliance
- Configure policies
- Configure public folders
- Configure client connectivity

Monitoring and Reporting

- Monitor mail queues
- Monitor system performance
- Perform message tracking
- Monitor client connectivity
- Create server reports
- Create usage reports

Configuring Disaster Recovery

- Configure backups
- Recover messaging data
- Recover server roles
- Configure high availability

COURSE MCS170

Title: Deploying Messaging Solutions with Microsoft Exchange Server 2007

Exam: Microsoft Exam 70-238

Course Description

This instructor-led course teaches students how to design a high availability messaging solution using Microsoft Exchange Server 2007. Students will create a high availability design to meet service level agreement requirements and learn strategies for gaining approval for the design. They will learn how to identify risks and create mitigation plans to maintain the business continuity of the messaging system. Students will also learn how to design a backup strategy, disaster recovery procedures, and test plans for those procedures.

Course Objectives

This course will cover the following subjects:

Planning Microsoft Exchange Server 2007 Upgrades and Migrations

- Plan the Exchange Server 2007 upgrade implementation
- Plan the Exchange Server 2007 migration implementation
- Plan interoperability with Exchange in separate organizations
- Plan coexistence with Exchange 2000 Server and Exchange Server 2003 in a single organization
- Plan interoperability with third-party messaging systems

Planning for High Availability Implementation

- Plan a backup solution implementation
- Plan a recovery solution implementation
- Plan the service's high availability implementation
- Plan a data redundancy implementation

Planning the Exchange Topology Deployment

- Plan the storage group deployment
- Plan the server role deployment
- Plan the deployment of required Exchange services
- Plan the deployment of optional Exchange services

Planning Messaging Security and Compliance Implementation

- Plan the antivirus and anti-spam implementation
- Plan the network layer security implementation
- Plan the transport rules implementation
- Plan the messaging compliance implementation

Planning for Messaging Environment Maintenance

- Plan for Exchange infrastructure improvements
- Plan for configuration changes
- Plan for change management
- Plan for patch and service pack implementation
- Plan for monitoring and reporting

COURSE MCS180

Title: Designing a Messaging Infrastructure using Microsoft Exchange Server & Designing a High Availability Messaging Solution using Microsoft Exchange Server 2007

Exam: Microsoft Exam 70-237

Course Description

This instructor-led course provides students with the knowledge and skills to design a messaging infrastructure. Students will learn to assess an existing infrastructure and determine technical and business requirements for both new Microsoft Exchange Server 2007 deployments and migrations. Students will create a design that addresses security, architecture, scalability, coexistence, and client access needs. They also will learn strategies for gaining approval for designs from stakeholders.

Course Objectives

This course will cover the following subjects:

Designing and planning messaging services

- Evaluate and recommend Active Directory configuration
- Evaluate and plan server deployment based on best practices, budget, and other business factors
- Evaluate network topology and provide technical recommendations
- Design and plan for new Exchange features
- Design organization configuration to meet routing requirements

Designing and planning server high availability

- Define a high availability solution based on client types and client loads
- Plan policies to handle unsolicited e-mail and virus outbreaks
- Evaluate role availability requirements and design solutions
- Design a disaster recovery, backup, and restore solution
- Evaluate existing business requirements to define supporting infrastructure
- Design and recommend a strategy for dependent services that impact high availability

Designing and planning coexistence and migration

- Design and plan for migration of legacy Exchange features
- Design a migration strategy
- Plan for coexistence (management tools for 2003 and 2007)

Defining policies and security procedures

- Design a solution to address regulatory and legal requirements
- Design procedures for message content filtering
- Design secure messaging

COURSE LIN100

Title: Linux+

Exam: XK0-001

- Identify all System Hardware Requirement
- Install Multimedia Options
- Determine what Software & Services should be Installed
- Configure File Systems
- Configure a Boot Manager
- Assign Users, Groups, Passwords, and Permissions Based on Company's Security Policy
- Manage Local Storage Devices & File systems
- Mount & Unmount Varied file systems
- Create Linked Files Using CLI Commands
- Perform & Verify Backups and Restores
- Access & Write Data to Recordable Media
- Identify, Execute, Manage and Kill Process
- Perform Remote Management
- Configure Client Network Services & Settings
- Configure Basic Server Network Services
- Configure a Network Interface Card form a Command Line
- Configure Linux Printing
- Setup Environment Variables
- Configure Security Environment Files
- Use Appropriate Access Level for Login
- Set Daemon & Process Permissions
- Implement Security Auditing for Files & Authentication
- Establish System Performance Baseline
- Troubleshoot errors Using System Logs
- Access System Documentation & Help Files
- Identify & Configure Mass Storage Devices & RAID