Planning and Implementing Windows Server 2008

Duration: 5 Days   Course Code: M6433

Overview:

"This is beta outline and therefore subject to change before the final courseware release"
This five day course is intended for IT Professionals who are interested in the knowledge and skills necessary to plan and implement a Windows Server 2008 and Windows Server 2008 R2 environment. It incorporates both the planning of the server infrastructure and key aspects of the implementation, management and maintenance of Active Directory and Network Infrastructure.It is the primary training resource for Exam 70-646 preparation (MCITP: Server Administrator certification). It covers the most important job tasks for Server Administrators who are responsible for the planning, operations, and day-to-day maintenance of Windows Server 2008 and Windows Server 2008 R2 servers in the enterprise. The course covers Windows server 2008, Windows Server 2008 R2 and Windows Server 2008 R2 SP1.

Target Audience:

This course is intended for experienced IT Professionals looking to gain deeper insight and decision making knowledge for a variety of planning and implementation tasks typically carried out by Server Administrators.Also, this course is relevant for you if you have been working as a Server Administrator on a previous version of Windows Server and want to update your skills to the Windows Server 2008 and Windows Server 2008 R2 SP1 environment.
The course is intended to build on the student's existing skills in the areas of Active Directory and Network Infrastructure for Windows Server 2008, therefore it is not suitable for new or inexperienced server administrators.

Objectives:

- After completing this course, students will be able to:

- Plan Windows Server 2008 and Windows Server 2008 R2 Sp1 deployments and upgrades

- Plan server management and delegated administration strategies

- Plan for network addressing with IPv4 and IPv6 and also the provisioning of DNS services

- Plan and provision Active Directory Domain Services

- Plan and implement Group Policy strategy

- Plan and implement Active Directory Certificate Services

- Plan and provision Application servers including Web services, presentation virtualisation and application virtualisation

- Plan and implement file and print server roles

- Plan and implement secure network access policies such as VPNs, Network Access Protection (NAP) and Direct Access

- Plan and provision data and storage

- Plan and implementan update management strategy using Windows Server Update Services (WSUS)

- Plan and implement high availability

- Plan for server performance and event monitoring

- Plan and implement a backup and recovery strategy

Prerequisites:

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- At least one year experience in implementing or contributing to server and client planning
- At least one year experience carrying out day to day network Infrastructure and Active Directory management and maintenance tasks
- Technology skills equivalent to moc course 6418C: Deploying

- MCTS: Windows Server 2008 Active Directory Configuration
- Equivalent course(s): 6425C and 6426C
- MCTS: Windows Server 2008 Network Infrastructure Configuration
- Equivalent course(s): 6421B

Content:

Module 1: Planning Server Deployment and Upgrade. This module explains how to plan Windows Server 2008 and Windows Server 2008 R2 deployments and upgrades.

- Developing a Deployment Strategy
- Virtualisation Considerations
- Selecting an Automation Strategy
- Implementing an Automation StrategyLab : Planning and Implementing Server Deployment
- Planning a Windows Server 2008 R2 Deployment
- Modifying a Windows Server 2008 R2 Image
- Preparing to Deploy the Windows Server 2008 R2 ImageAfter completing this module, students will be able to:
- Develop a deployment strategy.
- Determine factors that affect the implementation of virtualisation within your organisation.
- Select a strategy for deployment automation.
- Implement the selected automation strategy.Module 2: Planning Server Management and Delegated Administration. This module explains how to plan for server management and delegated administration on Windows Server 2008 and
- Server Management Tools
- Decentralising Systems AdministrationLab : Implementing Role Based Systems Administration
- Create an administrative-level role group
- Creating an account management group
- Enable and configure auditing for sensitive groupsAfter completing this module, students will be able to:
- Plan for the implementation and use ofWindows Server 2008 and Windows Server 2007 R2 remote management tools.
- Plan and Implement decentralised systems administration.Module 3: Planning Network Addressing and Name Resolution. This module explains how to plan for IPv4 and IPv6 addressing in your network and to plan and implement D
- Provisioning IPv4 Addresses on Enterprise Networks
- Provisioning IPv6 Addresses on Enterprise Networks
- Transitioning to IPv6
- Provisioning DNS Services on Enterprise NetworksLab : Planning and Implementing DHCP and DNS
- Planning the Deployment of DHCP and DNS Servers
- Implementing DNS
- Implementing DHCPAfter completing this module, students will be able to:
- Provision an IPv4 addressing scheme within your organisation.
- Provision an IPv6 addressing scheme within your organisation.

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- Plan the transition to IPv6.
- Plan and implement DNS name resolution services within your organisation's network. Module 4: Planning and Provisioning Active Directory Domain Services. This module explains how to plan and provision Active Directory Do
- Deploying Domain Controllers in Multi-Site Organisations
- Planning Administrative and Management Structures for AD DS
- Planning a Maintenance Strategy for AD DS
- Planning a Backup and Restore Strategy for AD DSLab : Planning and Provisioning AD DS
- Planning an Active Directory Structure
- Planning an AD DS Maintenance Strategy
- AD DS Backup and RecoveryAfter completing this module, students will be able to:
- Identify considerations for deploying domain controllers in multi-site organisations.
- Plan administrative and management structures for AD DS
- Plan a maintenance strategy for AD DS
- Plan a backup and recovery strategy for AD DS.Module 5: Planning Group Policy Strategy. This module explains how to plan and implement Group Policy strategy n Windows Server 2008 and Windows Server 2008 R2 environments
- Planning Group Policy Settings
- Planning Group Policy Assignment
- Planning the Management of Group Policy ObjectsLab : Planning and Implementing Group Policy
- Planning Group Policy
- Implementing the Proposed GPO PlanAfter completing this module, students will be able to:
- Plan GPO settings.
- Plan the assignment of group policy objects to AD DS containers.
- Plan how to manage GPOs within your organisation.Module 6: Planning Active Directory Certificate Services. This module explains how to plan Active Directory Certificate Services in Windows Server 2008 and Window Server 2
- Enterprise PKI Deployment and Administration
- Managing Certificate Templates
- Planning Certificate Enrollment and RevocationLab : Configuring Certificate Services
- Certificate Services Deployment Planning
- Standalone Root and Subordinate CA
- Configure Key Archiving and RecoveryAfter completing this module, students will be able to:
- Describe which roles and configurations require the deployment of Active Directory Certificate Services as part of a network's infrastructure services.
- Know when to deploy an enterprise or standalone Certification Authority

- Determine when to deploy an offline root Certification Authority
- Understand when to deploy a subordinate or issuing Certification Authority
- Plan the deployment of key archiving and recovery
- Develop an appropriate Certification Authority management strategyModule 7: Planning and Provisioning Application Servers. This module explains how to plan and provision application servers in Windows Server 2008 and Win
- Planning and Provisioning Web Services
- Planning and Provisioning Presentation Virtualisation
- Planning and Provisioning Application VirtualisationLab : Planning and Provisioning Application Servers
- Planning Application Deployment
- Configuring Remote Desktop Policies
- Configuring Recovery for Application Servers
- Configuring WSRM PoliciesAfter completing this module, students will be able to:
- Plan and provision web application servers.
- Plan and provision remote desktop services application servers.
- Plan and provision application virtualisation servers.Module 8: Planning File and Print Services. This module explains how to plan and implement File and Print services in your Windows Server 2008 and Windows Server 2008
- Provisioning File Services
- Provisioning and Managing Storage
- Provisioning and Managing Network Print Services
- Migrating File and Print ServicesLab : Planning and Implementing File and Print Services
- Planning File Services
- Implementing File Services in the Branch Office
- Implementing Print Services in the Branch OfficeAfter completing this module, students will be able to:
- Plan and implement the file service role.
- Plan and manage storage.
- Plan and manage shared printers.
- Plan the migration of file and print services to Windows Server 2008 R2Module 9: Planning Network Access. This module explains how to plan and implement your network infrastructure components in your Windows Server 2008
- Planning Network Security
- Planning Virtual Private Networks
- Planning Network Access Protection
- Planning DirectAccessLab : Planning and Implementing Network Access
- Planning Network Access
- Implementing Network AccessAfter completing this module, students will be able to:
- Plan network infrastructure components to improve network security

- Plan and implement VPNs
- Plan and implement NAP
- Plan DirectAccessModule 10: Provisioning Data and Storage. This module explains how to provision data and storage in your Windows Server 2008 and Windows server 2008 R2 environment.
- Planning and Implementing Distributed File System
- Planning and Implementing BranchCache
- Provisioning StorageLab : Planning and Implementing Data Access
- Planning Data Access
- Installing and Configuring DFS
- Enabling and Configuring BranchCacheAfter completing this module, students will be able to:
- Plan and implement the Distributed File System.
- Plan and implement BranchCache.
- Provision an appropriate storage solution.Module 11: Planning Update Deployment. This module explains how to plan and implement a Windows Server Update Service topology and how to deploy and manage updates in your Window
- WSUS Topologies
- Update ManagementLab : Multi-Site WSUS Deployment
- Analyse WSUS Deployment Plan
- Configure a Replica WSUS Server
- Configure WSUS for BranchCache and BITSAfter completing this module, students will be able to:
- Plan an appropriate Windows Server Update Services (WSUS) topology
- Deploy and manage updates Module 12: Planning High Availability. This module explains how to plan and implement High Availability in your Windows Server 2008 and Windows Server 2008 R2 environment.
- Planning Network Load Balancing
- Planning Failover Clustering
- Planning for Service AvailabilityLab : Planning and Implementing High Availability
- Planning High Availability
- Implementing High AvailabilityAfter completing this module, students will be able to:
- Plan and deploy network load balancing.
- Plan and deploy failover clustering.
- Plan for high service availability.Module 13: Planning Performance and Event Monitoring. This module explains how to plan for performance and event monitoring in your Windows Server 2008 and Windows Server 2008 R2 enviro
- Monitoring and Analysing Server Performance
- Managing EventsLab : Event Log Forwarding
- Planning Enterprise Event Log Management
- Configuring Event Subscriptions
- Creating Custom Views
- Creating Event TasksAfter completing this module, students will be able to:

- Monitor and analyse server performance.
- Manage events.Module 14: Enterprise Backup and Recovery. This module explains how to plan for back ups and disaster recovery in your Windows Server 2008 and Windows Server 2008 R2 environment
- Disaster Recovery Concepts
- Planning Windows Server Backup
- Planning and Administering RecoveryLab : Backup and restore from VHD
- Creating aDisaster Recovery Plan
- Configure network backup with Windows Server Backup
- Mount Backup VHD and Extract Data
- Configure a Windows Server 2008 server to boot from backup VHDAfter completing this module, students will be able to:
- Understand Disaster Recovery Concepts
- Plan Windows Server Backup
- Plan recovery of data and servers

Further Information:

For More information, or to book your course, please call us on 353-1-814 8200

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