

10-150-117 MS LAN Administration - Infrastructure

Program Outcomes awarded with successful completion: None

Student:

Evaluator:

To receive credit for this course, you must receive “Met” on 7 of the 9 competencies.

Directions: In a lab using the equipment set up by the instructor, you will complete the competencies below. The instructor will provide direction, but will not provide guidance as to how to complete the tasks.

Location: WITC Computer Lab

Time Limit: 2 hours

1. Install a Windows Server Operating System and Components		MET	NOT
1.1.	Windows Server has been installed		
1.2.	Windows Server has an assigned computer name		
1.a.	Perform a clean installation of the full version of a Windows Server Operating System		
1.b.	Install the server core version of a Windows Server Operating System		
1.c.	Install Windows Automated Installation Kit (WAIK)		
1.d.	Utilize Windows PE to access recovery tools		
1.e.	Deploy an Image with ImageX		
1.f.	Compare Microsoft Server licensing options		
2. Configure Networking Services on a Windows Server		MET	NOT
2.1.	the Windows Server has a static IP address configured on it		
2.2.	the Windows Server can ping another machine by IP address		
2.3.	the Windows Server can ping another machine by name		
2.a.	Configure a Windows Server to use IPv4 network addresses with the GUI		
2.b.	Configure a Windows Server to use IPv6 network addresses with the GUI		
2.c.	Utilize command line tools to configure network addressing on a Windows Server		
3. Configure DHCP on a Windows Server		MET	NOT
3.1.	DHCP Server scopes have defined for the specified IP range		
3.2.	DHCP Server scope includes a default gateway option		
3.3.	DHCP Server scope includes a DNS suffix option		
3.4.	DHCP Server scope includes a DNS Server option		
3.5.	DHCP Server includes DHCP reservations		
3.6.	DHCP Server communicates with a DHCP relay agent to provide configuration information		
3.7.	DHCP clients successfully acquire configuration information from the DHCP Server		
3.a.	Install the DHCP service on a Windows Server		
3.b.	Configure DHCP scopes on a Windows Server		
3.c.	Configure DHCP options, exclusions, and reservations on a Windows Server		
3.d.	Troubleshoot DHCP clients		
3.e.	Describe the DHCP lease request and renewal process		
3.f.	Configure DHCP Relay using Windows Servers		
3.g.	Backup the DHCP database on a Windows Server		

Skills Assessment Checklist

4. Install Active Directory Services		MET	NOT
4.1.	the server has been promoted to a domain controller		
4.2.	a windows workstation has been joined to the domain		
4.3.	students can log into the domain from a workstation using a regular user account		
4.a.	Promote a Windows Server to an Active Directory Domain Controller		
4.b.	Determine if a Server is a Stand-alone Server, Member Server, or Domain Controller		
4.c.	Add Users to an Active Directory Domain		
4.d.	Join a Windows computer to an Active Directory Domain		
5. Configure DNS on a Windows Server		MET	NOT
5.1.	a DNS Server has been configured to perform Recursive DNS lookups and Cache the results for use by local DNS clients		
5.2.	a Forward Lookup Zone for a specified domain has been configured on the DNS server		
5.3.	a Reverse Lookup Zone for a specified domain has been configured on the DNS server		
5.4.	the Forward Lookup Zone contains start of authority, host, alias, name server, and mail exchange records		
5.5.	you use DNS client tools to obtain name resolution from the DNS server		
5.6.	you display your local DNS cache		
5.7.	you clear your local DNS cache		
5.8.	you describe the name resolution process on a Windows workstation		
5.9.	a Secondary DNS Server has been configured to receive periodic zone transfers from a Primary DNS Server		
5.a.	Describe the Name Resolution Process		
5.b.	Configure the Hosts file		
5.c.	Install the DNS service on a Microsoft Server		
5.d.	Configure a Caching DNS server		
5.e.	Configure an Authoritative Name Server with Forward and Reverse Lookup Zones		
5.f.	Implement Zone Transfers between Primary and Secondary DNS servers		
5.g.	Identify DNS Resource Records		
5.h.	Troubleshoot name resolution issues using Client Tools		
6. Configure File Services on a Windows Server		MET	NOT
6.1.	shared folders have been created on the Server that are accessible from other machines on the network		
6.2.	you configure permissions on files and folders using the Windows GUI		
6.3.	you configure permissions on files and folders using command line tools		
6.4.	Disk Quotas have been configured on the Server		
6.a.	Create Shared Folders		
6.b.	Configure NTFS Permissions		
6.c.	Modify NTFS Permission Using Command Line Tools		
6.d.	Configure Distributed File System		
6.e.	Manage File and Disk Quotas		
7. Configure Access Services on a Windows Server		MET	NOT
7.1.	you configure a remote access VPN to a Microsoft Server that authenticates to a Microsoft RADIUS server		
7.a.	Configure a VPN Server for Remote Client Access		
7.b.	Configure Microsoft RADIUS Server to authenticate remote access clients		

Skills Assessment Checklist

8. Manage Printing in a Windows Domain		MET	NOT
8.1.	you install a network printer		
8.2.	you update a printer driver		
8.3.	you print to the network printer from a workstation		
8.a.	Install print services		
8.b.	Configure print services		
8.c.	Install locally attached printers		
8.d.	Install network printers		
8.e.	Update printer drivers		
8.f.	Monitor print queues		
9. Manage Security on a Windows Server		MET	NOT
9.1.	you properly configure the firewall on a Windows server		
9.2.	you configure Windows Software Update Services		
9.3.	you properly configure IPSec on a Windows server		
9.4.	you properly configure Network Access Protection		
9.a.	Configure Windows firewall		
9.b.	Perform File-based Encryption on a Windows Server		
9.c.	Configure IPSec on a Windows Server		
9.d.	Configure Network Access Protection		
9.e.	Utilize the Event Viewer		
9.f.	Utilize the Network Monitor		
9.g.	Implement Windows Software Update Services		
9.h.	Utilize Microsoft Baseline Security Analyzer		
9.i.	Backup a Windows Server		

Comments: