

## Certificate in Networking (107) – Windows Server 2003 Administration & Implementation

Prerequisites: Knowledge of Windows operating	Corequisites: A pass or higher in Diploma in
system.	Information Technology or equivalence
Aim: Understanding the configuration of security ir	Windows Networks through planning and configuration
of authentication and authorization strategy; setting	up CA's, configuration and distribution of Certificates;
using Smart Cards; planning and configuration of E	ncrypting File System; setting up server roles; planning
and configuring workstation's security level; ISA Se	erver 2004; securing Remote Access. Instructions focus
on the installation, configuration and management of	f local area networked servers. Topics covered include
support for local area networked devices, system ser	rvices, and deployment of networked operating systems.
The course covers tutorial in various network protoc	cols, name resolution services, remote access, security,
print installation, configuration, administration, mor	nitoring, and troubleshooting of Server Administration
software in an Active Directory domain environmen	nt. The course provides extensive tutorial for the technical
knowledge required for installation, configuration, a	dministration, monitoring, and troubleshooting of
Network Infrastructure services such as NDS, DHC	P, WINS, RRAS, NAT, and Certificate Authority to
support the network infrastructure. The course teach	nes all skill sets related to Microsoft Windows Server 2003

availability of the servers in a network; how to design and plan network and application services including physical topologies and domains and forests. Learners will learn to design and manage an enterprise network. Required Materials: Recommended Learning Supplementary Materials: Lecture notes and tutor

Resources. extra reading recommendations.

including deployment, management, maintaining and monitoring of the server, and maintaining high

Special Requirements: The course requires a co	ombination	of lectures, demonstrations, discussions, and
hands-on labs.		
Intended Learning Outcomes:	Assess	sment Criteria:
1. Understand the basics of Windows	1.1	Analyse the main products within the Windows
Server 2003		Server 2003 family
	1.2	Explore the features of Windows Server 2003
	1.3	Assess the Windows Server 2003 operating system architecture
	1.4	Contrast workgroups vs domains
	1.5	Outline Windows Server 2003 network services
	1.6	Recognise the Windows Server 2003 network protocols
	1.7	Explain the Windows Server 2003 network security services
	1.8	Explain Windows Server 2003 network models and server roles
	1.9	Explain Windows Server 2003 Active
		Directory concepts
	1.10	Summarise the various tasks of a Windows
		Server 2003 Network Administrator
2. Understand the installation and configuration of Windows Server 2003 and	2.1	Identify the phases of the installation process
hardware devices	2.2	Differentiate CD-ROM over the network and upgrade installations
	2.3	Be able to troubleshoot failed installations
	2.4	Be able to use the Device Manager tool
	2.5	Analyse hardware profiles and event logs
	2.6	Be able to configure hardware resource
		settings and resolve resource settings

	2.7	conflicts  Packle to install and manage Windows
	2.7	Be able to install and manage Windows
	2.8	Server 203 updates Analyse the various methods, tools and
	2.0	processes used to manage Windows
		Server 2003
3. Understand the features of Active	3.1	Outline the underlying Active Directory
Directory architecture		concepts
	3.2	Describe the basic elements of Active
		Directory
	3.3	Be able to install Active Directory
	3.4	Be able to work with Microsoft
	3.5	Management Console and Snap-ins Be able to create organisational units and
	3.3	manage Active Directory objects
	3.6	Summarise the role of Active Directory
		database and shared system volume
	3.7	Be able to troubleshoot Active Directory
		group types and scopes
	3.8	Be able to administer Active Directory
		object permissions
	3.9	Be able to management and troubleshoot
		Active Directory replication
4. Understand the organisational structure	4.1	Identify the different storage types
of data storage disks	4.2	Be able to create primary and extended
		partitions
	4.3	Contrast basic disks vs dynamic disks
	4.4	Be able to implement simple, spanned,
	1.5	striped, mirrored and RAID-5 volumes
	4.5	Be able to defragment volumes and
	4.6	partitions Analyse disk failure recovery process
	4.7	Outline disk management concepts,
	,	purpose and implementation of mounted
		drives.
5. Understand file systems, file permissions	5.1	Analyse the different file systems
and distributed file system	5.2	Be able to compress and encrypt data
	5.3	Be able to assign, create and manage
		shared folder permissions
	5.4	Contrast NTFS vs Special Access
		permissions
	5.5	Analyse Distributed file system
		components and be able to manage Dfs
	5.6	Root Be able to troubleshoot permissions
	5.7	Be able to configure file and folder
	3.7	attributes
	5.8	Be able to implement and manage disk
		quotas
6. Understand the administration of user	6.1	Illustrate the purpose of local user
Accounts		accounts
	6.2	Be able to create, set and modify local
		user accounts
	6.3	Analyse the automation of user creation
	C 4	and modification
	6.4	Summarise user profiles and be able to
		configure local, roaming and mandatory
	6.5	user profiles  Demonstrate the user authentication
	0.3 Tel: 0044-7	

7. Understand Group Accounts  7. Be able to create and modify groups using Active Directory Users and Computers MMC snap-in Analyse built in groups and their purpose  8. Analyse built in groups and their purpose  8. Understand Windows Server 2003 8. Understand Windows Server 2003 8. Understand Windows Server 2003 8. Understand Windows Server 2004 8. Understand Windows Server 2005 8. Be able to realize Group Policy Objects (GPOs)  8. Understand Windows Server 2003 8. Describe Microsoft's printing terminology  8. Describe Microsoft's printing terminology  8. Be able to install and share printer resources  8. Be able to publish printers prool and controlling access to printers  8. Be able to publish printers in Active Directory  8. Be able to malyse and monitor printer performance  9. Understand TCP/IP, DHCP and DNS  network concepts  9. Understand TCP/IP, DHCP and DNS  network roncepts  9. Understand TCP/IP, DHCP and DNS  network provided from the problems  9. Understand TCP/IP, DHCP and DNS  network roncepts  9. Configure and administer DNS and DHCP servers  9. Configure and administer DNS and DHCP servers  9. Configure and administer web resources  9. Se able to configure and administer web resources  9. Se able to configure and administer web resources  9. Se able to configure and administer web resources  9. Se able to configure and administer web resources  9. Se able to configure and configure windows Installer packages  10. Understand software deployment using  11. Understand the importance of monitoring server performance  11. Understand the importance of monitoring server performance  11. Understand the importance of monitoring server performance			
7. Understand Group Accounts  7. Understand Group Accounts  7. Understand Group Accounts  7. Outline the different types of Group Accounts  7. Death to create and modify groups using Active Directory Users and Computers MMC snap-in  7. Analyse built-in groups and their purpose  8. Death to create Group Policy Objects (GPOs)  7. Differentiate Group Policy Objects (GPOs)  7. Differentiate Group Policy Objects (GPOs)  8. Understand Windows Server 2003  8. Understand Windows Server 2003  8. Describe Microsoft's printing terminology and environment  8. Describe Microsoft's printing terminology  8. Describe to install and share printer resources  8. Describe microsoft's printing terminology  8. Describe to install and share printer problems  9. Understand TCP/IP, DHCP and DNS  9. Be able to set printer priorities  8. Be able to set printer priorities  8. Be able to troubleshoot printer problems  9. Hultstrate communication in Windows  9. Describe network protocol framework  9. Describe the functions of DNS and DHCP servers  9. Describe the functions of DNS and DHCP servers  9. Describe the functions of DNS and DHCP servers  9. Describe the functions of DNS and DHCP servers  9. Describe the functions of DNS and DHCP servers  9. Describe the functions of DNS and DHCP servers  9. Describe the functions of DNS and DHCP servers  9. Describe the functions of DNS and DHCP servers  9. Describe		6.6	1
Accounts Re able to create and modify groups using Active Directory Users and Computers MMC snap-in Analyse built-in groups and their purpose Re able to create Group Policy Objects (GPOs) Differentiate Group Policy Objects (GPOs) Differentiate Group Policy Objects (GPOs) Differentiate Group Policy Objects (GPOs) Poliferentiate Group Policy Objects (GPOs) Re able to readirect Group Policy Objects (GPOs) Re able to redirect folders using GPOs Re able to troubleshoot computer accounts Responsible to troubleshoot printer problems Responsible to tro			
7.2   Be able to create and modify groups using Active Directory Users and Computers MMC snap-in Analyse built-in groups and their purpose Be able to create Group Policy Objects (GPOs) 7.5   Be able to rediffer settings using GPOs Be able to rediffer settings using GPOs Be able to rediffer settings using GPOs Be able to modify software settings using GPOs Be able to rediffer settings using GPOs Be able to rediffer settings using GPOs Be able to rediffer settings using GPOs Be able to install and share printer resources Be able to install and share printer resources Be able to publish printing terminology and environment Be able to publish printing terminology Be able to install and share printer resources Be able to publish printing terminology Be able to publish printing terminology Be able to publish printing terminology Be able to publish printers in Active Directory Be able to troubleshoot printer problems Be able to manalyse and monitor printer performance Be able to manalyse and monitor printer problems Be able to troubleshoot printer problems Be able to manalyse and monitor printer problems Be able to troubleshoot printer problems Be able to manalyse and monitor printer problems Be able to troubleshoot printer problems Be able to monitor printer problems Be able to monitor and phtCP servers Configure and examine IP addressing in TCP/IP Describe the functions of DNS and DHCP servers Possible and phtCP servers Be able to administer bnS and DHCP servers Possible and Terminal Services Be able to administer web resources Be able to administer web resources Be able to administer web resources Be able to configure and administer bnS and DHCP servers Possible and Terminal Services Be able to deploy software management Be able to create and configure Windows Installer packages ID. Be able to each poly software through Software Installation MMC snap-i	7. Understand Group Accounts	7.1	
7.3. Analyse built-in groups and their purpose 8. Understand Windows Server 2003 network printing terminology and environment 8. Understand Windows Server 2003 network printing terminology and environment 8. Understand Windows Server 2003 network printing terminology and environment 8. Understand Windows Server 2003 network printing terminology and environment 8. Understand Windows Server 2003 network printing terminology and environment 8. Understand Windows Server 2003 network printing terminology and environment 8. Describe Microsoft's printing terminology 8. Describe Indicaces to printer prool and controlling access to printers 9. Describe Indicaces to printer prool and controlling access to printers 9. Describe Indicaces to printer prool and controlling access to printers 9. Describe Indicaces to printer prool and controlling access to printers 9. Be able to applied to analyse and monitor printer preformance 9. Understand TCP/IP, DHCP and DNS 9. Illustrate communication in Windows 9. Be able to troubleshoot printer problems 9. Illustrate communication in Windows 9. Describe network protocol framework lidentify TCP/IP concepts 9. Describe the functions of DNS and DHCP servers 9. Describe the functions of DNS and DHCP servers 9. Describe the functions of DNS and DHCP servers 9. Describe the functions of DNS and DHCP servers 9. Describe the functions of DNS and DHCP servers 9. Describe the functions of DNS and DHCP servers 9. Describe the functions of DNS and DHCP servers 9. Describe the functions of DNS and DHCP servers 9. Describe the functions of DNS and DHCP servers 9. Describe the functions of DNS and DHCP servers 9. Describe the functions of DNS and		7.2	Be able to create and modify groups
purpose 7.4 Be able to create Group Policy Objects (GPOs) 7.5 Differentiate Group Policy Objects (GPOs) 7.6 Be able to modify software settings using GPOs 8. Understand Windows Server 2003 network printing terminology and environment 8.1 Describe Microsoft's printing terminology 8.2 Be able to install and share printer resources 8.3 Demonstrate creating printer pool and controlling access to printers 8.4 Be able to set printer priorities 8.5 Be able to analyse and monitor printer performance 8.6 Be able to troubleshoot printer in Active Directory 8.6 Be able to troubleshoot printer problems 9. Understand TCP/IP, DHCP and DNS network concepts 9. Describe network protocol framework 1 Illustrate communication in Windows Server 2003 network 9. Describe network protocol framework 1 Illustrate communication in Windows Server 2003 network 9. Describe network protocol framework 1 Illustrate communication in Windows 1 Illustrate communication in Windows 1 DHCP servers 9. Configure and administer DNS and DHCP servers 9. Configure and administer DNS and DHCP servers 9. Contrast Windows, Unix and Linux operating systems 9. Be able to administer web resources 9. Be able to deminister web resources 9. Be able to deministe		7.3	Computers MMC snap-in
CigPos   7.5   Differentiate Group Policy types   Be able to modify software settings using GPOs   Be able to redirect folders using GPOs   Be able to troubleshoot computer accounts			purpose
7.6 Be able to modify software settings using GPOs Be able to redirect folders using GPOs Be able to redirect folders using GPOs Be able to troubleshoot computer accounts    8. Understand Windows Server 2003   8.1 Describe Microsoft's printing terminology and environment			(GPOs)
GPOS 7.8 Be able to redirect folders using GPOS 8.8 Be able to troubleshoot computer accounts  8. Understand Windows Server 2003 network printing terminology and environment  8.1 Describe Microsoft's printing terminology 8.2 Be able to install and share printer resources 8.3 Demonstrate creating printer pool and controlling access to printers 8.4 Be able to set printers in Active Directory 8.6 Be able to analyse and monitor printer performance 8.7 Be able to troubleshoot printer problems  9. Understand TCP/IP, DHCP and DNS network concepts  9.1 Illustrate communication in Windows Server 2003 network 9.2 Describe network protocol framework 1 Identify TCP/IP concepts 9.4 Be able to configure and examine IP addressing in TCP/IP 9.5 Describe the functions of DNS and DHCP servers 9.6 Configure and administer DNS and DHCP servers 9.7 Troubleshoot TCP/IP, DHCP and DNS problems 9.8 Contrast Windows, Unix and Linux operating systems 9.9 Be able to administer web resources 9.10 Be able to administer web resources 9.10 Understand software deployment using Group Policy  10. Understand software deployment using Group Policy  11. Understand the importance of monitoring server performance  11. Underst Viewer to identify			
8. Understand Windows Server 2003 network printing terminology and environment  8.1 Describe Microsoft's printing terminology 8.2 Be able to install and share printer resources 8.3 Demonstrate creating printer pool and controlling access to printers 8.4 Be able to set printer priorities 8.5 Be able to set printer priorities 8.6 Be able to publish printers in Active Directory 8.6 Be able to troubleshoot printer problems 9. Understand TCP/IP, DHCP and DNS network concepts  9. Understand TCP/IP, DHCP and DNS network concepts  9.1 Illustrate communication in Windows Server 2003 network 9.2 Describe network protocol framework identify TCP/IP concepts 9.4 Be able to configure and examine IP addressing in TCP/IP 9.5 Describe the functions of DNS and DHCP servers 9.6 Configure and administer DNS and DHCP servers 9.7 Troubleshoot TCP/IP, DHCP and DNS problems 9.8 Contrast Windows, Unix and Linux operating systems 9.9 Be able to administer web resources 9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  11. Understand the importance of monitoring server performance 11. Understand to use Event Viewer to identify			GPOs
8. Understand Windows Server 2003 network printing terminology and environment  8.1 Describe Microsoft's printing terminology  8.2 Be able to install and share printer resources  8.3 Demonstrate creating printer pool and controlling access to printers  8.4 Be able to set printer priorities  8.5 Be able to publish printers in Active Directory  8.6 Be able to troubleshoot printer problems  9. Understand TCP/IP, DHCP and DNS network concepts  9. Understand TCP/IP, DHCP and DNS network concepts  9.1 Illustrate communication in Windows Server 2003 network  9.2 Describe network protocol framework Identify TCP/IP concepts  9.4 Be able to configure and examine IP addressing in TCP/IP  9.5 Describe network protocol framework DHCP servers  9.6 Configure and administer DNS and DHCP servers  9.7 Troubleshoot TCP/IP, DHCP and DNS problems  9.8 Contrast Windows, Unix and Linux operating systems  9.9 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components  10.2 Analyse the phases of software management  10.3 Be able to create and configure Windows Installer packages  10.4 Be able to use Task Manager to monitor server performance  11.1 Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance			
network printing terminology and environment  8.2 Be able to install and share printer resources  8.3 Demonstrate creating printer pool and controlling access to printers  8.4 Be able to set printer priorities  8.5 Be able to publish printers in Active Directory  8.6 Be able to publish printers in Active Directory  8.7 Be able to troubleshoot printer problems  9. Understand TCP/IP, DHCP and DNS network concepts  9.1 Illustrate communication in Windows Server 2003 network  9.2 Describe network protocol framework Identify TCP/IP concepts  9.4 Be able to configure and examine IP addressing in TCP/IP  9.5 Describe the functions of DNS and DHCP servers  9.6 Configure and administer DNS and DHCP servers  9.7 Troubleshoot TCP/IP, DHCP and DNS problems  9.8 Contrast Windows, Unix and Linux operating systems  9.9 Be able to administer web resources  9.10 Be able to administer web resources  9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components  10.2 Analyse the phases of software management  10.3 Be able to create and configure Windows Installer packages  10.4 Be able to use Task Manager to monitor server performance  11.1 Understand the importance of monitoring server performance  11.2 Be able to use Task Manager to monitor server performance		7.0	
8.2 Be able to install and share printer resources  8.3 Demonstrate creating printer pool and controlling access to printers  8.4 Be able to set printer priorities  8.5 Be able to publish printers in Active Directory  8.6 Be able to analyse and monitor printer performance  8.7 Be able to troubleshoot printer problems  9. Understand TCP/IP, DHCP and DNS network concepts  9.1 Illustrate communication in Windows Server 2003 network  9.2 Describe network protocol framework Identify TCP/IP concepts  9.4 Be able to configure and examine IP addressing in TCP/IP  9.5 Describe the functions of DNS and DHCP servers  9.6 Configure and administer DNS and DHCP servers  9.7 Troubleshoot TCP/IP, DHCP and DNS problems  9.8 Contrast Windows, Unix and Linux operating systems  9.9 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components  10.2 Analyse the phases of software management  10.3 Be able to create and configure Windows Installer packages  10.4 Be able to deploy software through Software Installation MMC snap-in  11.1 Understand the importance of monitoring server performance  11.2 Be able to use Task Manager to monitor server performance		8.1	ž – <del>ž</del>
8.3 Demonstrate creating printer pool and controlling access to printers  8.4 Be able to set printer priorities  8.5 Be able to publish printers in Active Directory  8.6 Be able to analyse and monitor printer performance  8.7 Be able to troubleshoot printer problems  9. Understand TCP/IP, DHCP and DNS network concepts  9.1 Illustrate communication in Windows Server 2003 network  9.2 Describe network protocol framework  9.3 Identify TCP/IP concepts  9.4 Be able to configure and examine IP addressing in TCP/IP  9.5 Describe the functions of DNS and DHCP servers  9.6 Configure and administer DNS and DHCP servers  9.7 Troubleshoot TCP/IP, DHCP and DNS problems  9.8 Contrast Windows, Unix and Linux operating systems  9.9 Be able to administer web resources  9.10 Understand software deployment using Group Policy  10.1 Outline IntelliMirror components  10.2 Analyse the phases of software management  10.3 Be able to create and configure Windows Installer packages  10.4 Be able to deploy software through Software Installation MMC snap-in  11.1 Understand the importance of monitoring server performance  11.2 Be able to use Task Manager to monitor server performance  11.2 Be able to use Event Viewer to identify	network printing terminology and environment	8.2	
8.4 Be able to set printer priorities 8.5 Be able to publish printers in Active Directory 8.6 Be able to analyse and monitor printer performance 8.7 Be able to troubleshoot printer problems  9. Understand TCP/IP, DHCP and DNS network concepts  9.1 Illustrate communication in Windows Server 2003 network 9.2 Describe network protocol framework 9.3 Identify TCP/IP concepts 9.4 Be able to configure and examine IP addressing in TCP/IP 9.5 Describe the functions of DNS and DHCP servers 9.6 Configure and administer DNS and DHCP servers 9.7 Troubleshoot TCP/IP, DHCP and DNS problems 9.8 Contrast Windows, Unix and Linux operating systems 9.9 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components 10.2 Analyse the phases of software management 10.3 Be able to create and configure Windows Installer packages 10.4 Be able to operate and trought Software Installation MMC snap-in 11. Understand the importance of monitoring server performance 11.1 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify		8.3	Demonstrate creating printer pool and
8.5 Be able to publish printers in Active Directory  8.6 Be able to analyse and monitor printer performance  8.7 Be able to troubleshoot printer problems  9. Understand TCP/IP, DHCP and DNS network concepts  9.1 Illustrate communication in Windows Server 2003 network  9.2 Describe network protocol framework Identify TCP/IP concepts  9.4 Be able to configure and examine IP addressing in TCP/IP  9.5 Describe the functions of DNS and DHCP servers  9.6 Configure and administer DNS and DHCP servers  9.7 Troubleshoot TCP/IP, DHCP and DNS problems  9.8 Contrast Windows, Unix and Linux operating systems  9.9 Be able to analyse and monitor printer problems  9.10 Understand software deployment using Group Policy  10.1 Outline IntelliMirror components  10.2 Analyse the phases of software management  10.3 Be able to create and configure Windows Installer packages  10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance  11.2 Be able to use Event Viewer to identify		Q /1	
8.6 Be able to analyse and monitor printer performance 8.7 Be able to troubleshoot printer problems  9. Understand TCP/IP, DHCP and DNS network concepts  9.1 Illustrate communication in Windows Server 2003 network 9.2 Describe network protocol framework Identify TCP/IP concepts 9.4 Be able to configure and examine IP addressing in TCP/IP 9.5 Describe the functions of DNS and DHCP servers 9.6 Configure and administer DNS and DHCP servers 9.7 Troubleshoot TCP/IP, DHCP and DNS problems 9.8 Contrast Windows, Unix and Linux operating systems 9.9 Be able to administer web resources 9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components 10.2 Analyse the phases of software management 10.3 Be able to create and configure Windows Installer packages 10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance 11.1 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify			
9. Understand TCP/IP, DHCP and DNS network concepts  9.1 Illustrate communication in Windows Server 2003 network 9.2 Describe network protocol framework 1 dentify TCP/IP concepts 9.4 Be able to configure and examine IP addressing in TCP/IP 9.5 Describe the functions of DNS and DHCP servers 9.6 Configure and administer DNS and DHCP servers 9.7 Troubleshoot TCP/IP, DHCP and DNS problems 9.8 Contrast Windows, Unix and Linux operating systems 9.9 Be able to administer web resources 9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services 10. Understand software deployment using Group Policy  10. Understand the importance of monitoring server performance 11. Understand the importance of monitoring server performance 11.1 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify		0.5	•
9. Understand TCP/IP, DHCP and DNS network concepts  9.1 Illustrate communication in Windows Server 2003 network 9.2 Describe network protocol framework 1 Be able to configure and examine IP addressing in TCP/IP 9.5 Describe the functions of DNS and DHCP servers 9.6 Configure and administer DNS and DHCP servers 9.7 Troubleshoot TCP/IP, DHCP and DNS problems 9.8 Contrast Windows, Unix and Linux operating systems 9.9 Be able to administer web resources 9.10 Understand software deployment using Group Policy  10. Understand software deployment using Group Policy  10. Understand the importance of monitoring server performance  11. Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance  11.2 Be able to use Event Viewer to identify		8.6	
network concepts    Server 2003 network     9.2 Describe network protocol framework     9.3 Identify TCP/IP concepts     9.4 Be able to configure and examine IP addressing in TCP/IP     9.5 Describe the functions of DNS and DHCP servers     9.6 Configure and administer DNS and DHCP servers     9.7 Troubleshoot TCP/IP, DHCP and DNS problems     9.8 Contrast Windows, Unix and Linux operating systems     9.9 Be able to administer web resources     9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services     10. Understand software deployment using     Group Policy     10.1 Outline IntelliMirror components     10.2 Analyse the phases of software management     10.3 Be able to create and configure Windows Installer packages     10.4 Be able to deploy software through     Software Installation MMC snap-in     11. Understand the importance of monitoring     11.1 Be able to use Task Manager to monitor server performance     11.2 Be able to use Event Viewer to identify		8.7	
9.3 Identify TCP/IP concepts 9.4 Be able to configure and examine IP addressing in TCP/IP 9.5 Describe the functions of DNS and DHCP servers 9.6 Configure and administer DNS and DHCP servers 9.7 Troubleshoot TCP/IP, DHCP and DNS problems 9.8 Contrast Windows, Unix and Linux operating systems 9.9 Be able to administer web resources 9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy 10.1 Outline IntelliMirror components 10.2 Analyse the phases of software management 10.3 Be able to create and configure Windows Installer packages 10.4 Be able to deploy software through Software Installation MMC snap-in 11. Understand the importance of monitoring server performance 11.1 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify	· ·	9.1	
9.4 Be able to configure and examine IP addressing in TCP/IP 9.5 Describe the functions of DNS and DHCP servers 9.6 Configure and administer DNS and DHCP servers 9.7 Troubleshoot TCP/IP, DHCP and DNS problems 9.8 Contrast Windows, Unix and Linux operating systems 9.9 Be able to administer web resources 9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy 10.1 Outline IntelliMirror components 10.2 Analyse the phases of software management 10.3 Be able to create and configure Windows Installer packages 10.4 Be able to create and configure Windows Installer packages 10.5 Be able to deploy software through Software Installation MMC snap-in 11. Understand the importance of monitoring server performance 11.2 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify			
addressing in TCP/IP  9.5 Describe the functions of DNS and DHCP servers  9.6 Configure and administer DNS and DHCP servers  9.7 Troubleshoot TCP/IP, DHCP and DNS problems  9.8 Contrast Windows, Unix and Linux operating systems  9.9 Be able to administer web resources  9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components  10.2 Analyse the phases of software management  10.3 Be able to create and configure Windows Installer packages  10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance  11.2 Be able to use Event Viewer to identify			
DHCP servers  9.6 Configure and administer DNS and DHCP servers  9.7 Troubleshoot TCP/IP, DHCP and DNS problems  9.8 Contrast Windows, Unix and Linux operating systems  9.9 Be able to administer web resources  9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components 10.2 Analyse the phases of software management 10.3 Be able to create and configure Windows Installer packages 10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance  11.2 Be able to use Event Viewer to identify			addressing in TCP/IP
DHCP servers  9.7 Troubleshoot TCP/IP, DHCP and DNS problems  9.8 Contrast Windows, Unix and Linux operating systems  9.9 Be able to administer web resources  9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components  10.2 Analyse the phases of software management  10.3 Be able to create and configure Windows Installer packages  10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance  11.2 Be able to use Event Viewer to identify		9.5	
9.7 Troubleshoot TCP/IP, DHCP and DNS problems  9.8 Contrast Windows, Unix and Linux operating systems  9.9 Be able to administer web resources  9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components 10.2 Analyse the phases of software management 10.3 Be able to create and configure Windows Installer packages 10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify		9.6	
9.8 Contrast Windows, Unix and Linux operating systems 9.9 Be able to administer web resources 9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components 10.2 Analyse the phases of software management 10.3 Be able to create and configure Windows Installer packages 10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance 11.1 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify		9.7	Troubleshoot TCP/IP, DHCP and DNS
9.9 Be able to administer web resources 9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components 10.2 Analyse the phases of software management 10.3 Be able to create and configure Windows Installer packages 10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance 11.1 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify		9.8	Contrast Windows, Unix and Linux
9.10 Be able to configure and troubleshoot VPN, NAT, Internet Connection Sharing and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components 10.2 Analyse the phases of software management 10.3 Be able to create and configure Windows Installer packages 10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance 11.1 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify		9.9	
and Terminal Services  10. Understand software deployment using Group Policy  10.1 Outline IntelliMirror components 10.2 Analyse the phases of software management 10.3 Be able to create and configure Windows Installer packages 10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance 11.1 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify			Be able to configure and troubleshoot
Group Policy  10.2 Analyse the phases of software management 10.3 Be able to create and configure Windows Installer packages 10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify			
management  10.3 Be able to create and configure Windows Installer packages  10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance  11.2 Be able to use Event Viewer to identify	1 2		
10.3 Be able to create and configure Windows Installer packages 10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance 11.2 Be able to use Event Viewer to identify	Group Policy	10.2	
10.4 Be able to deploy software through Software Installation MMC snap-in  11. Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance  11.2 Be able to use Event Viewer to identify		10.3	Be able to create and configure Windows
Software Installation MMC snap-in  11. Understand the importance of monitoring server performance  11.1 Be able to use Task Manager to monitor server performance  11.2 Be able to use Event Viewer to identify		10.4	
server performance server performance 11.2 Be able to use Event Viewer to identify			
11.2 Be able to use Event Viewer to identify	1	11.1	
Tel: 0044 7423211037		1	Be able to use Event Viewer to identify

	and troubleshoot problems
11.3	Be able to use Performance console to
	monitor server performance
11.4	Be able to troubleshoot Windows Server
	2003 startup problems
11.5	Be able to use Windows Server 2003
	Backup utility
11.6	Analyse Windows Server 2003 security
	features

## Recommended Learning Resources: Windows Server 2003 Administration & Implementation

Text Books	<ul> <li>Windows Server 2003: A Beginner's Guide (Beginner's Guide) by Martin Matthews. ISBN-10: 0072193093</li> <li>MCSE Guide to Managing a Microsoft Windows Server 2003 Environment, Enhanced by Dan DiNicolo and Brian T. McCann. ISBN-10: 1423902890</li> <li>Guide to Managing a Microsoft Windows Server 2003 Environment by Dan DiNicolo, Jennifer Guttormson, Kelly Reid. ISBN-10: 0619120347</li> </ul>
Study Manuals	BCE produced study packs
CD ROM	Power-point slides
Software	Windows Server 2003