

Diploma in Windows Networking (200) – Windows Server 2000 Network Infrastructure

Prerequisites: Knowledge in Windows operating system.		uisites: A pass or higher in Certificate in rking or equivalence.
Aim: Candidates will learn how to install, configure, manage, and support a Windows Server network		
		uding Dynamic Host Configuration Protocol (DHCP),
		ervice (WINS), Certificate Services, Internet Protocol
Security (IPSec), routing, Network Address Transla		
		and design a directory service architecture, including:
unified directory services such as Active Directory		
systems, system components, and applications and	data rep	lication such as directory replication and database
replication		
Required Materials: Recommended Learning		ementary Materials: Lecture notes and tutor extra
Outcomes.		g recommendations.
	oination	of lectures, demonstrations, discussions, and hands-
on labs.		
Intended Learning Outcomes:	Assess	sment Criteria:
1 Describe many of the new features of	1.1	Explain the Windows Server networking
Windows Server. Detail differences between the		architecture
four main Windows Server product family members	1.2	Define the major networking protocols supported by Windows Server
	1.3	Recognise many of the networking services
	- 10	available in Windows Server
2 Describe the history of the TCP/IP	2.1	Define and assign static and dynamic TCP/IP
protocol stack. Identify TCP/IP addresses,		addresses to Windows Server machines
classes, and subnet masks. Create a subnetting	2.2	Establish TCP/IP packet filtering
scheme for a given TCP/IP network address	2.3	Optimise networking protocol bindings
seneme for a given Tel/II network address	2.3	optimise networking protocor bindings
	3.1	Configure a client to use DHCP
3 Describe the dynamic host configuration	3.2	Install the DHCP server service
protocol (DHCP). Describe the dynamic IP	3.3	Configure scopes within the DHCP server service
leasing process	3.4	Define and create scope options
leasing process	3.5	Authorise a DHCP server in Active Directory
	3.6	Configure DHCP for integration with DNS
	3.7	Manage, monitor, and troubleshoot DHCP
	3.7	manage, moment, and troubleshoot Brief
	4.1	Install the DNS server
	4.2	Configure a DNS server; create resource records
	1.2	manually
	4.3	Configure a client to use DNS
	4.4	Manage, monitor, and troubleshoot DNS
4 Provide an overview of the Domain	1. 7	Traininge, monitor, and troubleshoot Dirib
Name System (DNS). Describe the features of	5.1	Install WINS; configure replication between WINS
DNS in Windows Server		servers
	5.2	Configure a client to use WINS
	5.3	Manage, monitor, and troubleshoot WINS
5 Provide an overview of NETBIOS		
naming and NetBIOS name resolution. Describe	6.1	Configure inbound RRAS Connections
the features of the Windows Internet Name	6.2	Create a remote access policy
Service (WINS). Explain in detail the new	6.3	Configure a remote access profile
features in the Windows Server implementation of	6.4	Configure a Virtual Private Network

WINS	6.5 Configure remote access security, including
	encryption and authentication protocols
6 Describe the use of Routing and Remote Access Service (RRAS). Understand how to	6.6 Configure multilink connections6.7 Configure routing and remote access for DHCP
install RRAS	6.7 Configure routing and remote access for DHCP integration
listali KKAS	6.8 Manage, monitor, and troubleshoot remote access
	7.1 Configure static routing
	7.2 Configure demand-dial routing
	7.3 Manage and monitor border routing
	7.4 Manage and monitor interior routing
	7.5 Manage and monitor RIP and OSPF
	7.6 Manage, monitor, and troubleshoot network traffic
5 11 11 1100	8.1 Configure IP Security for transport mode on a
7 Describe the differences between interior	Windows Server 8.2 Configure IP Security for tunnel mode on a
and exterior routing protocols. Describe the routing protocols supported by Windows Server,	8.2 Configure IP Security for tunnel mode on a Windows Server
including RIP and OSPF	8.3 Customise IP Security policies and rules
merading fitt and opti	8.4 Manage and monitor IP Security
	9.1 Install and configure ICS on Windows Server or
	Professional
8 Describe the features and benefits of the	9.2 Install and configure NAT on Windows Server
IP Security protocol. Describe the modes of	9.3 Monitor and manage NAT
operation for IP Security. Describe the IP Security authentication and architecture	10.1 Install and configure Microsoft Certificate Server;
Security authentication and arcinecture	issue, manage, and revoke certificates
	10.2 Remove EFS recovery keys
9 Explain the differences between Internet	
Connection Sharing (ICS) and Network Address	
Translation. Describe the address translation	
process	
Describe the components of a public key	
infrastructure. Explain the public/private key	
encryption process. Explain the use of certificates	

Recommended Learning Resources: Windows 2000 Server Infrastructure

	mended Learning Resources. Windows 2000 Berver initiastracture
	MCSE Guide to Designing a Microsoft Windows Network Infrastructure (MSCE) by Chuck Holcombe. ISBN-10: 0619016930
	• Implementing a Microsoft Windows Network Infrastructure by Corp. ISBN-10: 0595148190
Text Books	MCSE Training Guide: (70-216) Windows 2000 Network Infrastructure by Dave Bixler. SBN-10: 0789728788
Study Manuals	BCE produced study packs
CD ROM	Power-point slides
Software	Windows Server