






Diploma in Windows Networking (200) – Windows Exchange Server

<p>Prerequisites: Knowledge in Windows operating system.</p>	<p>Corequisites: A pass or higher in Certificate in Networking or equivalence.</p>
<p>Aim: Exchange is a popular Microsoft messaging system that includes a mail server, an e-mail program (e-mail client), and groupware applications. Designed for use in a business setting, the Exchange server is often used in conjunction with Microsoft Outlook to take advantage of Outlook's collaborative features, such as the ability to share calendars and contact lists. There are two main reasons for the course. Firstly, this course supports the large numbers of customers running Exchange in upgrading their skills. Secondly, this course fills in a skills gap that currently exists in the industry. This course provide candidates with the knowledge and skills necessary to install and configure Microsoft Exchange. It prepares candidates with skills needed to deploy and manage Exchange. This course will assist students in operating in medium to large computing environments that typically have multiple physical locations, mixed client connection protocols, and Internet messaging connectivity. On completion of the course, candidates will be able to: Describe the new Exchange Server features; Install and deploy Exchange Server in an Exchange Server organization; Configure Mailbox servers and Mailbox server components; Manage recipient objects, including migrating recipients from previous versions of Exchange Server to Exchange Server; Migrate client access services from previous versions of Exchange Server, and configure the Client Access server role in Exchange Server; Configure the secure flow of messages between the Exchange Server organization and the internet; Implement a high availability solution for Mailbox servers and other server roles in Exchange Server; Plan and implement a disaster recovery solution for Exchange Server servers; Plan and configure messaging compliance; Configure Exchange Server security; Monitor and maintain the messaging system. Fundamental knowledge of network technologies including Domain Name System (DNS) and firewall technologies is important.</p>	
<p>Required Materials: Recommended Learning Resources.</p>	<p>Supplementary Materials: Lecture notes and tutor extra reading recommendations.</p>
<p>Special Requirements: The course requires a combination of lectures, demonstrations, discussions, and hands-on labs.</p>	
<p>Intended Learning Outcomes:</p> <ol style="list-style-type: none"> 1. Describe how Exchange Server is a reliable messaging platform that reduces costs, increases productivity, and improves communications. 2. Describe how Exchange Server uses a transaction-based storage architecture that includes a database file, a native content file and transaction logs. 3. Describe Exchange Message Routing Architecture message transport operates 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> 1.1 Outline Exchange Server versions 1.2 Describe Exchange Server organisation 1.3 Describe Exchange Server storage architecture 1.4 Describe Exchange Server services 1.5 Explore Exchange Server Active Directory requirements 1.6 Define Simple Mail Transport Protocol (SMTP) 1.7 Identify instant communication services 1.8 Outline Microsoft Management console 2.1 Explore database structure 2.2 Outline storage groups 2.3 Identify database files 2.4 Explore public folder storage 2.5 Analyse public folder security 2.6 Describe client access protocols 2.7 Describe index building 2.8 Define front-end/back-end servers 3.1 Define Exchange routing groups 3.2 Outline routing message flow

	3.3 Describe how queuing engine routes messages
	3.4 Describe routing groups
	3.5 Outline how messages are routed to other email systems
	3.6 Describe routing group topologies
	3.7 Describe link state protocols
	3.8 Discuss link failures
4. Describe Exchange Server and its relationship to Active Directory and how Microsoft Active Directory uses the Schema to represent the classes, attributes and objects.	4.1 Identify Active Directory integration advantages
	4.2 Explore Exchange Directory objects
	4.3 Analyse Exchange Server mail distribution lists
	4.4 Outline Exchange Server expansion servers
	4.5 Analyse Exchange Server address lists
	4.6 Outline DNS configuration
5. Describe Exchange Server installation requirements and demonstrate how to perform an installation of Exchange Server and verify recipients.	5.1 Identify hardware requirements
	5.2 Outline Exchange Server installation process
	5.3 Be able to upgrade from previous versions
6. Describe the Exchange Server features for management interface.	6.1 Explore console structure
	6.2 Explore management snap-ins
	6.3 Be able to create custom consoles
	6.4 Outline Exchange organisational hierarchy
	6.5 Explore Global settings container
	6.6 Explore system policies container
7. Demonstrate how to manage addressing and recipient objects such as mailboxes, address policies and address lists.	7.1 Outline recipient object types
	7.2 Be able to create mailbox enabled users
	7.3 Identify group issues
	7.4 Be able to search for recipients
	7.5 Be able to configure recipient policies
8. Explain how to manage public folders and demonstrate how to configure Public Folders using administrative tools.	8.1 Outline public folder management
	8.2 Be able to create a public folder from Outlook
	8.3 Explore public folder administration utility
	8.4 Be able to manage public folders through Exchange System Manager
	8.5 Analyse public folder security features
	8.6 Outline Active Directory public folder issues
	8.7 Describe public folder replication
9. Describe the recommended storage group and database configuration for Exchange mailbox servers and multiple storage groups.	9.1 Outline the need for storage groups
	9.2 Explore different types of storage group files
	9.3 Be able to create a mailbox store
	9.4 Be able to create a public folder store
	9.5 Describe how to move or delete a store
10. Demonstrate how the Administrative Groups container allows the creation of multiple administrative groups.	10.1 Outline Administrative tool
	10.2 Explore Administrative Group policies
	10.3 Identify Administrative Group containers
	10.4 Explore policy conflicts

<p>11. Describe Exchange routing group topology options and how to configure Routing Group connectors to connect routing groups in Exchange Server.</p>	<p>11.1 Outline routing group concepts 11.2 Be able to create a routing group 11.3 Explore routing group connectors 11.4 Be able to track message paths</p>
<p>12. Demonstrate how to use Exchange Management Shell to configure routing group.</p>	<p>12.1 Explore Outlook features 12.2 Explore Outlook service options 12.3 Explore Outlook profiles 12.4 Be able to support offline Outlook use 12.5 Describe synchronisation 12.6 Explore Outlook Express protocols 12.7 Outline Exchange Server internet protocols</p>
<p>13. Demonstrate how install chat service in Exchange server.</p>	<p>13.1 Explore chat service feature 13.2 Be able to control connections to communities 13.3 Be able to create channels 13.4 Outline performance monitor counters 13.5 Be able to configure chat settings</p>
<p>14. Describe how Exchange Server and Microsoft Outlook Web App deliver a rich, access email, voicemail, instant messages, and SMS text messages.</p>	<p>14.1 Explore instant messaging architecture 14.2 Outline client logon process 14.3 Be able to install instant messaging 14.5 Outline firewall topology settings</p>
<p>15. Describe Anti-virus and email security software for Microsoft Exchange Server that protects against email viruses, exploits and trojans.</p>	<p>15.1 Explore ways of protecting information 15.2 Describe Public Key Infrastructure (PKI) concepts 15.3 Outline Windows PKI services and security protocols 15.4 Outline Certificate Authority (CA) models 15.5 Be able to revoke certificates 15.6 Explore Exchange Key Management Service (KMS)</p>
<p>16. Define foreign mail system and demonstrate how to use X.400 to connect Exchange to foreign mail system</p>	<p>16.1 Outline Foreign Mail Systems 16.2 Be able to create X.400 connector 16.3 Be able to configure MS-Mail connector 16.4 Explore cc:Mail concepts</p>
<p>17. Describe how to monitor Exchange servers demonstrate how to automates online maintenance tasks.</p>	<p>17.1 Be able to setup diagnostic logging 17.2 Explore event viewer utility 17.3 Explore Exchange Server performance and scalability counters 17.4 Be able to backup Exchange Server information 17.5 Explore backup strategies 17.6 Be able to restore Exchange Server database 17.7 Outline Exchange Server troubleshooting tools</p>
<p>18. Demonstrate how to configure the legacy namespace and SSL requirements for co-existence between different Exchange Servers.</p>	<p>18.1 Outline mixed-mode configuration 18.2 Explore Exchange site replication service 18.3 Explore Windows and Exchange Server services 18.4 Discuss co-existence issues</p>

**Recommended Learning Resources:
Windows Exchange Server**

Text Books	<ul style="list-style-type: none">• Exchange - A Practical Approach by Jaap Wesselius ISBN-10: 1906434328• Microsoft Exchange Server Best Practices by Siegfried Jagott and Joel Stidley ISBN-10: 0735627193• Microsoft Exchange Server Inside Out by Tony Redmond ISBN-10: 0735640610
Study Manuals 	BCE produced study packs
CD ROM 	Power-point slides
Software 	Windows Exchange Server

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