MOC 10165 A Updating Your Skills from Microsoft Exchange Server 2003 or Exchange Server 2007 to Exchange Server 2010

Course Summary

Description

There are two main reasons for the course. Firstly, this course supports the large numbers of customers still running Exchange 2003 or Exchange 2007 in upgrading their skills and environments to Exchange 2010 Service Pack 1 (SP1) and to help drive that adoption. Secondly, this course fills in a skills gap that currently exists in the portfolio and, while the content is not driven by the exam ODs, provide further support for the exams.

1. Upgrading skills to Exchange Server 2010 support within the Exchange Portfolio: The primary reason for the course development is to provide a single course to allow IT professionals who are currently experienced in and are running Exchange 2003 or Exchange 2007 environments, a fast-track method to upgrade their skills and to enable them to upgrade to Exchange 2010 SP1 and help drive that technology adoption, without having to take the other two Exchange 2010 courses and 10 days of training.
2. To fill a skills gap and provide further support for Exchange Server 2010 exams: The course will provide an accelerated skills-upgrade path and also provide additional support for the two Exchange Server 2010 exams, both of which are listed below. This course is not a direct mapping to the below exams; however, it is intended as an additional support for elements within these exams.

Objectives

At the end of this course, students will be able to:

- Describe the new Exchange Server 2010 features as compared to Exchange Server 2003 and Exchange Server 2007.
- Install and deploy Exchange Server 2010 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 2010.
- Migrate client access services from previous versions of Exchange Server, and configure the Client Access server role in Exchange Server 2010.
- Migrate message transport from previous versions of Exchange Server, and configure message transport in Exchange Server 2010.
- 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 2010 servers.
- Plan and configure messaging compliance.
- Migrate Exchange Server permissions to Exchange Server 2010, and configure Exchange Server security.
- Monitor and maintain the messaging system.
- Upgrade an Exchange Server 2007 organization to Exchange Server 2010.

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Course Summary (cont'd)

Topics

- Introducing Exchange Server 2010
- Deploying Microsoft Exchange Server 2010
- Configuring Mailbox Servers
- Managing Recipient Objects
- Managing Client Access
- Managing Message Transport
- Implementing Messaging Security
- Implementing High Availability
- Implementing Backup and Recovery
- Configuring Messaging Policy and Compliance
- Securing Exchange Server 2010
- Monitoring and Troubleshooting Exchange Server 2010
- Upgrading from Exchange Server 2007 to Exchange Server 2010

Audience

This course is intended for IT professionals experienced with the technologies included in Microsoft Exchange Server 2003 or Exchange Server 2007. Students wishing to take this course should have a Technology Specialist or equivalent certification, or equivalent knowledge and experience, and be looking to upgrade their skills to Exchange Server 2010.

This IT professional is the senior administrator, or "engineer" who acts as a technical lead over a team of administrators. This person is a third level of support in addition to the Exchange Recipient Administrator, which is the first level, and the Exchange Server Administrator, which is the second level. In an effort to ensure that end users have the best possible messaging experience, this person also evaluates new technologies and tools. The candidate is responsible for planning and deploying Exchange servers in an enterprise environment. He or she should have a minimum of two years of experience administering, deploying, managing, monitoring, upgrading, migrating, and designing Exchange Server.

Prerequisites

Before attending this course, students must have:

- A MCSE in the Windows Server 2003 operating system or TS qualification in Exchange Server 2007 with Exam 70-236 : TS : Exchange Server 2007, Configuring
- Windows Server 2008 Technology Specialist Skills
- At least two years administering Exchange Server 2003 or Exchange Server 2007

Duration

Five days

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Course Outline

I. Introducing Exchange Server 2010

This module describes the new Exchange Server 2010 features as compared to the Exchange Server 2003 and Exchange Server 2007 features.
This module will cover the new features and terminology in two lessons, one of which will describe what is new since Exchange Server 2003. The other lesson will describe what is new since Exchange Server 2007. By covering this material at a high level early in the course, we can decrease some of the gaps in knowledge between the Exchange Server 2003 administrators and the Exchange Server 2007 administrators.
This module will also provide a high-level view of the steps required to migrate from previous Exchange Server versions to Exchange Server 2010. The purpose of this information is to provide a context for the following modules.

A. New Exchange Server 2010 Features for Exchange Server 2003 Administrators
B. New Exchange Server 2010 Features for Exchange Server 2007 Administrators
C. Upgrading to Exchange Server 2010

Lab: Planning Hardware Requirements for Microsoft Exchange Server 2010

- Identifying the Hardware Requirements

After completing this module, students will be able to:

- Summarize some of the new features in Exchange Server 2010 as compared to Exchange Server 2003 features.
- Summarize some of the new features in Exchange Server 2010 as compared to Exchange Server 2007 features.
- Describe the process for upgrading to Exchange Server 2010 from Exchange Server 2003 and Exchange Server 2007.

II. Deploying Microsoft Exchange Server 2010

This module explains how to install and deploy Exchange Server 2010 in an Exchange Server organization.

A. Installing Exchange Server 2010
B. Verifying the Exchange Server 2010 Installation

Lab: Installing Microsoft Exchange Server 2010

- Evaluating Requirements for an Exchange Server Installation
- Preparing for an Exchange Server 2010 Installation
- Installing Exchange Server 2010

Lab: Verifying the Microsoft Exchange Server 2010 Installation

- Verifying an Exchange Server 2010 Installation
- Verifying Exchange Server Version Interoperability

After completing this module, students will be able to:

- Describe the prerequisites required to install Exchange Server 2010.
- Verify the successful installation of Exchange Server 2010 in an Exchange Server organization.

III. Configuring Mailbox Servers

This module explains how to configure Mailbox servers and Mailbox server components.

A. Upgrading the Mailbox Server Role
B. Configuring Mailbox Server Roles
C. Configuring Public Folders and Public Folder Databases

Lab: Configuring Mailbox Servers

- Configuring Mailbox Databases
- Configuring Public Folders

After completing this module, students will be able to:

- Upgrade the Mailbox server role from previous versions of Exchange Server.
- Configure the Exchange Server 2010 Mailbox server role.

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Course Outline (cont'd)

- Create and configure public folder databases and public folders.

IV. Managing Recipient Objects
This module explains how to manage recipient objects, including migrating recipients from previous versions of Exchange Server to Exchange Server 2010.

A. Managing Mailboxes
B. Managing Other Recipients
C. Configuring Email Address Policies and Address Lists
D. Performing Bulk Recipient Management Tasks

Lab: Managing Recipient Objects

- Managing Recipient Objects
- Configuring Email Address Policies and Address Lists
- Managing Multiple Recipients

After completing this module, students will be able to:

- Manage mailboxes in Exchange Server 2010.
- Configure contacts and configure distribution groups.
- Configure email policies and address lists in Exchange Server 2010.
- Perform bulk recipient management tasks.

V. Managing Client Access
This module explains how to migrate client access services from Exchange Server 2003 and configure the Client Access server role in Exchange Server 2010.

A. Migrating the Client Access Server Role
B. Configuring the Client Access Server Role
C. Configuring Client Access Services for Outlook Clients
D. Configuring Outlook Web App
E. Configuring Mobile Messaging

Lab: Migrating and Configuring Client Access Servers

- Configuring Client Access Servers
- Migrating Client Access Services

Lab: Configuring Client Access

- Configuring Outlook Anywhere
- Configuring Outlook Web App
- Configuring Exchange ActiveSync

After completing this module, students will be able to:

- Migrate client access services from previous versions of Exchange Server to Exchange Server 2010.
- Configure the Client Access server role in Exchange Server 2010.
- Configure client access services for Outlook clients.
- Configure Outlook Web App in Exchange Server 2010.
- Configure Exchange ActiveSync (EAS) policies and manage mobile devices in Exchange Server 2010.

VI. Managing Message Transport
This module explains how to migrate message transport from previous versions of Exchange Server and configure message transport in Exchange Server 2010.

A. Overview of Message Transport
B. Configuring Message Transport

Lab: Migrating and Managing Message Transport

- Configuring Internet Message Transport
- Troubleshooting Message Transport

After completing this module, students will be able to:

- Configure and troubleshoot SMTP message routing in Exchange Server 2010.

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Course Outline (cont'd)

- Configure Hub Transport servers and message transport in Exchange Server 2010.

VII. Implementing Messaging Security
This module explains how to configure the secure flow of messages between the Exchange Server organization and the Internet.

A. Deploying Edge Transport Servers
B. Deploying an Antivirus Solution
C. Configuring an Anti-Spam Solution
D. Configuring Secure SMTP Messaging

Lab: Configuring Edge Transport Servers and Microsoft Forefront Protection 2010 for Exchange Server

- Installing Edge Transport Servers
- Configuring Edge Transport Servers
- Configuring Forefront Protection 2010 for Exchange Servers

Lab: Configuring Anti-Spam Filtering

- Configuring Anti-Spam Filtering
- Verifying the Anti-Spam Settings

After completing this module, students will be able to:

- Deploy Edge Transport servers and configure Edge Subscriptions.
- Configure Forefront Protection 2010 for Exchange Server.
- Configure anti-spam filtering in Exchange Server 2010.
- Configure SMTP messaging security.

Implementing High Availability
This module explains how to implement a high availability solution for Mailbox servers and other server roles in Exchange Server.

A. Configuring Highly Available Mailbox Databases
B. Deploying Highly Available Non-Mailbox Servers
C. Deploying High Availability with Site Resilience

Lab: Implementing High Availability

- Deploying a Database Availability Group
- Deploying Client Access Servers
- Testing the High Availability Configuration

After completing this module, students will be able to:

- Configure database availability groups (DAGS).
- Configure high availability for the non-Mailbox server roles.
- Implement site resilience for Exchange Server 2010.

VIII.Implementing Backup and Recovery
This module describes how to plan and implement a disaster recovery solution for Exchange Server 2010 servers.

A. Planning Backup and Recovery
B. Backing Up Exchange Server 2010
C. Restoring Exchange Server 2010

Lab: Implementing Backup and Recovery

- Implementing Disaster Recovery with DAGs
- Backing up Exchange Server 2010
- Restoring Exchange Server Data

After completing this module, students will be able to:

- Plan and configure options for disaster recovery and options for minimizing impact of data loss or failure.
- Describe the information and data needed to select an Exchange Server backup solution.
- Restore Exchange Server data and servers.

IX. Configuring Messaging Policy and Compliance
This module explains how to plan and configure messaging compliance.

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Course Outline (cont'd)

A. Introducing Messaging Policy and Compliance
B. Configuring Transport Rules
C. Configuring Journaling and Multi-Mailbox Search
D. Configuring Archive Mailboxes
E. Configuring Retention and Archive Policies

Lab: Configuring Transport Rules, Journal Rules, and Multi-Mailbox Search

- Configuring Transport Rules
- Configuring Journal Rules
- Configuring Multi-Mailbox Search

Lab: Configuring Archive Mailboxes and Retention Policies

- Configuring Archive Mailboxes
- Configuring Retention Policies

After completing this module, students will be able to:

- Describe the requirements and options for implementing compliance requirements.
- Configure transport rules.
- Configure journaling and Multi-Mailbox Search.
- Configure archive mailboxes.
- Configure retention and archive policies.

X. Securing Exchange Server 2010

This module explains how to configure Exchange Server security.

A. Configuring Role-Based Access Control
B. Configuring Audit Logging
C. Configuring Secure Internet Access

Lab: Securing Exchange Server 2010

- Configuring Delegated Permissions
- Configuring RBAC split permissions
- Configuring Audit Logging

After completing this module, students will be able to:

- Configure role-based access control (RBAC).
- Configure administrator and mailbox audit logging.
- Configure secure Internet access to Exchange 2010 servers.

XI. Monitoring and Troubleshooting Exchange Server 2010

This module explains how to monitor and maintain the messaging system.

A. Monitoring Exchange Server 2010
B. Troubleshooting Exchange Server 2010

Lab: Maintaining Exchange Server 2010

- Monitoring Exchange Server 2010
- Troubleshooting Database Availability
- Troubleshooting Client Access Servers

After completing this module, students will be able to:
Monitor Exchange Server 2010 servers.
Troubleshoot Exchange server issues.

Upgrading from Exchange Server 2007 to Exchange Server 2010

This module explains how to upgrade an Exchange Server 2007 organization to Exchange Server 2010.

A. Upgrading from Exchange Server 2007 to Exchange Server 2010

Lab: Upgrading from Exchange Server 2007 to Exchange Server 2010

- Installing Exchange Server 2010
- Configuring Exchange Version Coexistence
- Removing Exchange Server 2010

After completing this module, students will be able to:

- Upgrade from Exchange Server 2007 to Exchange Server 2010.

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