

Course 10233B: Designing and Deploying Messaging Solutions with Microsoft® Exchange Server 2010 Service Pack 2

Five Days, Instructor-Led

About this course

This five-day, instructor-led course provides you with the knowledge and skills to design and deploy messaging solutions with Microsoft Exchange Server 2010. This course describes how to gather requirements for a messaging solution and then design the integration of Exchange Server 2010 with the current infrastructure. The course then covers how to plan and deploy the various server roles in Exchange Server 2010. You will explore the various options for implementing messaging security, policies, and compliance. The course also examines the high availability and disaster recovery options and how to develop a troubleshooting plan. Finally, the course describes how to plan the transition from earlier versions of Exchange Server to Exchange Server 2010 and the integration of Exchange Server 2010 with other messaging systems, including with Microsoft Office 365.

Audience profile

This course is intended for IT professionals who are responsible for the Exchange Server messaging environment in an enterprise. 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, who is the first level, and the Exchange Server Administrator, who 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 the 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.

At course completion

- Gather the information required to design a messaging system.
- Design the integration of Exchange Server with the current infrastructure.
- Design the deployment of the Mailbox server services in Exchange Server 2010.
- Design the Client Access server deployment.
- Design the Hub Transport server and Edge Transport server deployments.
- Plan and deploy messaging security.
- Plan and deploy a messaging policy and compliance solution.
- Plan a highly available Exchange Server 2010 deployment.
- Plan a disaster recovery solution in Exchange Server 2010.
- Develop a plan for monitoring and troubleshooting the Exchange Server environment.
- Plan and implement a transition from Exchange Server 2003 or Exchange Server 2007 to Exchange Server 2010.
- Integrate Exchange Server 2010 with other messaging systems and with federated partners.

Pre-requisites

Before attending this course, students must have:

- At least two years of experience working with Microsoft Exchange Server.
- At least six months of experience working with Exchange Server 2010 or Exchange Server 2007.
- At least two years of experience administering the Windows Server® operating system, including Windows Server 2008.
- At least two years of experience working with Active Directory Domain Services (AD DS).
- At least two years of experience working with name resolution, including DNS.
- Experience working with certificates, including Public Key Infrastructure (PKI) certificates.
- Experience working with the Windows PowerShell® command-line interface.

Course Outline

Module 1: Introduction to Designing a Microsoft Exchange Server 2010 Deployment

This module explains how to gather business and technical requirements, and information about the current messaging system, in order to prepare for designing a messaging system. This module also provides an overview of Service Level Management and how it can impact the design of the messaging system, and it provides an overview of Office 365.

Lessons

- Gathering Business Requirements
- Identifying Additional Requirements
- Introduction to Service Level Management
- Analyzing the Current Messaging Environment
- Overview of Office 365

Lab : Introduction to Designing an Exchange Server 2010 Deployment

- Evaluating an Existing Messaging Infrastructure
- Evaluating the Need for Exchange Online
- Creating a Requirements Document
- Discussion: Real-World Best Practices for Setting Budget Expectations
- Discussion: Refining the Scope of SLA Requirements

After completing this module, students will be able to:

- Gather business requirements for an organization.
- Identify additional requirements.
- Describe service level management.
- Analyze the current messaging environment.
- Describe Office 365.

Module 2: Designing Microsoft Exchange Server 2010 Integration with the Current Infrastructure

This module explains how to design the integration of Exchange Server with the current infrastructure. It describes how to design the network infrastructure, the Active Directory directory service infrastructure, and the Domain Name Service (DNS) infrastructure. Additionally, this module explains how to plan the administration of Exchange Server 2010.

Lessons

- Designing the Network Infrastructure
- Designing the Active Directory Infrastructure
- Designing the DNS Infrastructure
- Planning Exchange Server Administration

Lab : Designing Exchange Server Integration with the Current Infrastructure

- Evaluating the Current Network Infrastructure at Contoso
- Determining Suitability for Exchange Server 2010
- Preparing the AD DS Forest For Exchange Server 2010
- Configuring Exchange Server Delegation

After completing this module, students will be able to:

- Design the network infrastructure.
- Design the Active Directory infrastructure.
- Design the DNS infrastructure.
- Plan the Exchange Server administration.

Module 3: Planning and Deploying Mailbox Services

This module explains how to design the deployment of the Mailbox server services in Exchange Server 2010. It provides an overview of the Mailbox services in Exchange Server 2010. The module then describes how to design Mailbox servers, recipient management, and a public folder architecture.

Lessons

- Overview of Mailbox Services in Exchange Server 2010
- Designing Mailbox Servers
- Designing Recipient Management
- Designing Public Folder Architecture

Lab : Planning and Deploying Mailbox Services

- Designing the Mailbox Server Deployment
- Designing Recipient Management
- Designing a Public Folder Deployment
- Implementing Mailbox Services

After completing this module, students will be able to:

- Describe the Mailbox Services in Exchange Server 2010.

- Design Mailbox servers.
- Design recipient management.
- Design a public folder architecture.

Module 4: Planning and Deploying Client Access Services in Microsoft Exchange Server 2010

This module explains how to plan and deploy client access services in Exchange Server 2010. It provides an overview of the Client Access server role, and then it describes how to design the Client Access server deployment, Client Access, and Client Access policies.

Lessons

- Overview of the Client Access Server Role
- Designing Client Access Server Deployment
- Designing Client Access
- Designing Client Access Policies

Lab : Planning and Deploying Client Access Services in Exchange Server 2010

- Designing the Client Access Server Deployment
- Designing Client Access
- Implementing Client Access

After completing this module, students will be able to:

- Describe the functionality of the Client Access server role.
- Design the Client Access server deployment.
- Design Client Access.
- Design Client Access policies.

Module 5: Planning and Deploying Message Transport in Microsoft Exchange Server 2010

This module explains how to design the Hub Transport server and Edge Transport server deployments. It also describes how to design

message routing in Exchange Server 2010. The module then explains how to design the Hub Transport servers and the Edge Transport servers.

Lessons

- Designing Message Routing for Exchange Server 2010
- Designing Hub Transport Servers
- Designing the Message Routing Perimeter

Lab : Planning and Deploying Message Transport in Exchange Server 2010

- Designing a Message Routing Topology
- Designing a Messaging Perimeter
- Discussion: Improving an Active Directory and Message Routing Design
- Modifying the Routing Topology

After completing this module, students will be able to:

- Design message routing for Exchange Server 2010.
- Design Hub Transport servers.
- Design the message routing perimeter.

Module 6: Planning and Deploying Messaging Security

This module explains how to plan and deploy messaging security. It describes how to design message security restrictions and Simple Mail Transfer Protocol (SMTP) connector security, and it explains how to help secure message routing between partner organizations. The module then describes how to design antivirus and anti-spam solutions, and it explains how to plan and deploy messaging security.

Lessons

- Designing Message Security
- Designing Antivirus and Anti-Spam Solutions
- Planning and Deploying Messaging Security

Lab : Planning and Deploying Messaging Security

- Designing Message Security
- Designing Antivirus and Anti-Spam Solutions
- Implementing Message Security

After completing this module, students will be able to:

- Design message security.
- Design antivirus and anti-spam solutions.
- Plan and deploy messaging security.

Module 7: Planning and Deploying Messaging Compliance

This module explains how to plan and deploy a messaging policy and compliance solution. It describes how to design transport rules, message classifications, and message moderation. Then the module describes how to design the Active Directory Rights Management Services (AD RMS) integration with Exchange Server 2010. Finally, the module explains how to design message journaling, archiving, and messaging records management.

Lessons

- Designing Transport Compliance
- Designing AD RMS Integration
- Designing Message Journaling and Archiving
- Designing Messaging Records Management

Lab : Planning and Deploying Messaging Compliance

- Planning a Message Transport Implementation
- Planning a Message Journaling and Archiving Solution
- Planning Messaging Records Management

- Implementing a Message Compliance Plan

After completing this module, students will be able to:

- Design transport compliance.
- Design AD RMS integration with Exchange Server 2010.
- Design message journaling and archiving.
- Design messaging records management.

Module 8: Planning and Deploying High Availability

This module explains how to plan a highly available Exchange Server 2010 deployment. It provides an introduction to high availability in Exchange Server 2010. It also describes how to design high availability for mailbox databases and for the other Exchange Server 2010 server roles. Finally, the module explains how to design site resilience.

Lessons

- Introduction to High Availability Planning in Exchange Server 2010
- Designing High Availability for Mailbox Databases
- Designing High Availability for Other Server Roles
- Designing Site Resilience

Lab : Planning and Deploying High Availability

- Designing High Availability for Exchange Servers
- Implementing High Availability for Exchange Servers

After completing this module, students will be able to:

- Describe high availability planning in Exchange Server 2010.
- Design high availability for mailbox databases.

- Design high availability for other server roles.
- Design site resilience.

Module 9: Planning a Disaster Recovery Solution

This module explains how to plan a disaster recovery solution for Exchange Server 2010. It describes how to plan for disaster mitigation and then explains how to design Exchange Server backup and recovery.

Lessons

- Planning for Disaster Mitigation
- Planning Exchange Server Backup
- Planning Exchange Server Recovery

Lab : Planning a Disaster Recovery Solution

- Planning Disaster Recovery for Vancouver
- Planning Disaster Recovery for San Diego
- Implementing Single Item Recovery

After completing this module, students will be able to:

- Plan for disaster mitigation.
- Plan Exchange Server backup.
- Plan Exchange Server recovery.

Module 10: Planning Microsoft Exchange Server 2010 Monitoring and Troubleshooting

This module explains how to develop a plan for monitoring and troubleshooting the Exchange Server environment. It first describes the various options for monitoring the different server roles in Exchange Server 2010. The module then describes the available troubleshooting tools and explains how to plan for troubleshooting issues in message delivery, client access, and databases.

Lessons

- Planning Exchange Server Monitoring
- Planning Exchange Server Troubleshooting

**Lab : Planning Exchange Server 2010
Monitoring and Troubleshooting**

- Establishing a Baseline for Performance
- Measuring the Production System Performance under Additional Load

After completing this module, students will be able to:

- Plan Exchange Server monitoring.
- Plan Exchange Server troubleshooting.

Module 11: Transitioning to Exchange Server 2010

This module explains how to plan and implement a transition from Exchange Server 2003 or Exchange Server 2007 to Exchange Server 2010. It first provides an overview of the various transitioning scenarios. The module then describes how to plan the transition from Exchange Server 2003 to Exchange Server 2010 and from Exchange Server 2007 to Exchange Server 2010.

Lessons

- Overview of Upgrading to Exchange Server 2010
- Planning the Upgrade from Exchange Server 2003 to Exchange Server 2010
- Planning the Upgrade from Exchange Server 2007 to Exchange Server 2010

Lab : Upgrading to Exchange Server 2010

- Reviewing the Exchange Server 2010 Design
- Design an Exchange Server 2010 Upgrade Strategy

After completing this module, students will be able to:

- Describe transitioning to Exchange Server 2010.
- Plan the transition from Exchange Server 2003 to Exchange Server 2010.

- Plan the transition from Exchange Server 2007 to Exchange Server 2010.

Module 12: Integrating Exchange Server 2010 with Other Messaging Systems

This module explains how to integrate Exchange Server 2010 with other messaging systems and with federated partners. It first describes how to design Exchange Server 2010 integration with other messaging systems, and then it explains how to design Exchange Server 2010 integration with federated partners. The module also describes how to design the integration of Exchange Server 2010 with Office 365, and it describes how to design single sign-on for Office 365.

Lessons

- Designing Exchange Server 2010 with Other Messaging Systems
- Designing Exchange Server 2010 with Federated Partners
- Designing Exchange 2010 Integration with Office 365
- Designing Single Sign-On for Office 365

Lab : Integrating Exchange Server 2010 with Other Messaging Systems

- Design Integration with Office 365

After completing this module, students will be able to:

- Design Exchange Server 2010 integration with other messaging systems.
- Design Exchange Server 2010 integration with federated partners.
- Design Exchange Server 2010 integration with Office 365.
- Design single sign-on for Office 365.

Additional Reading

To help you prepare for this class, review the following resources:

- Course 10135A Configuring, Managing and Troubleshooting Microsoft Exchange Server 2010 SP2

Course Inclusions:

- Microsoft Official Curriculum (MOC) and/or Wizards Learning Courseware (WLC)
- Microsoft Certified Trainer (MCT)
- Lunch, AM and PM Snacks
- Certificate of Achievement
- Course Note