



## EXCHANGE 2007 BOOT CAMP

This 5 day Boot Camp is a deep dive into Exchange 2007. It will combine key modules of Microsoft Courses 5047, 5049, 5050, 5051, 5053 and 5054. The course hours will be extended to 8am to 5pm each day. This course is designed for those wanting an extensive working knowledge of Microsoft Exchange 2007. Those attending should be prepared for intensive lecture, discussion and hands on labs. The course will also help to prepare you for taking the Exchange 2007 Certification Exams. Details of the course content are listed below.

### Module 1: Installing Exchange Server 2007

After completing this module, students will be able to install Exchange Server 2007.

#### Lessons

- Introduction to the Exchange Server 2007 Server Roles
- Installing Exchange Server 2007
- Completing the Exchange Server 2007 Installation

#### Lab : Installing Exchange Server 2007

- Preparing the Environment for an Exchange Server 2007 Installation
- Installing Exchange Server 2007 Client Access Server and Hub Transport Server Roles

#### Lab : Verifying an Exchange Server 2007 Installation

- Verifying an Exchange Server 2007 Installation

After completing this module, students will be able to:

- Describe the Exchange Server 2007 server roles.

- Install Exchange Server 2007.

### Module 2: Configuring Mailbox Server Roles

After completing this module, students will be able to configure Mailbox Server roles.

#### Lessons

- Overview of Exchange Server 2007 Administration Tools
- Implementing Mailbox Server Roles
- Managing Public Folder Databases

#### Lab : Configuring Mailbox Servers

- Configuring Storage Groups and Database Files
- Configuring a Public Folder and Store Referrals

After completing this module, students will be able to:

- Describe the Exchange Server 2007 Administration Tools.
- Implement Mailbox Server roles.
- Manage Public Folder databases.

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### Module 3: Managing Client Access

After completing this module, students will be able to manage client access.

#### Lessons

- Implementing Client Access Servers
- Implementing Client Access Features
- Implementing Outlook Web Access
- Introduction to Implementing Mobile Messaging

#### Lab : Managing Client Access

- Managing Mobile Device Connectivity
- Managing Outlook Web Access

After completing this module, students will be able to:

- Implement client access servers.
- Implement client access features.
- Implement Outlook Web Access.
- Implement Mobile Messaging.

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### Module 4: Managing Message Transport

After completing this module, students will be able to manage messaging transport.

#### Lessons

- Introduction to Message Transport
- Implementing Message Transport

#### Lab : Managing Message Transport and Handling

- Troubleshooting Local Message Delivery
- Troubleshooting Remote Message Delivery
- Troubleshooting Message Transport

After completing this module, students will be able to:

- Describe how Message Transport works in Exchange Server 2007.
- Implement Message Transport.

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### Module 5 Managing Availability, Backup and Recovery

After completing this module, students will be able to manage availability, and backup and recovery.

#### Lessons

- Implementing High-Availability for Mailbox Servers
- Managing a Backup Solution
- Managing a Recovery Solution

#### Lab : Managing Backup and Recovery

- Restoring Data using the Recovery Storage Group

After completing this module, students will be able to:

- Implement high-availability for mailbox servers
- Manage a backup solution.
- Manage a recovery solution.

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### Module 6: Configuring Edge Transport Servers

After completing this module, students will be able to configure edge transport servers.

#### Lessons

- Deploying Edge Transport Servers
- Configuring Internet Message Delivery
- Configuring Security for Internet E-Mail

#### Lab : Configuring Edge Transport Servers

- Configuring SMTP Connectors to Secure SMTP E-Mail

- Implementing Secure/Multipurpose Internet Mail Extensions (S/MIME)

After completing this module, students will be able to:

- Deploy edge transport servers.
- Configure Internet message delivery.
- Configure security for Internet e-mail.

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### **Module 7: Recovering Messaging Databases**

After completing this module, students will be able to recover messaging databases.

#### **Lessons**

- Overview of Database Recovery Scenarios
- Recovering a Messaging Database Using Dial-Tone Recovery

#### **Lab: Recovering Messaging Databases in Exchange Server 2007**

- Performing a Storage Group Backup
- Performing a Dial-Tone Recovery
- Repairing a Damaged Database

After completing this module, students will be able to:

- Describe messaging database recovery scenarios.
- Recover a messaging database using dial-tone recovery.

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### **Module 8: Preparing for and Recovering from Mailbox Server Failures**

After completing this module, students will be able to prepare for and recover from Mailbox server failures.

#### **Lessons**

To enroll visit [www.tulsanet.com](http://www.tulsanet.com)

- Preparing for a Mailbox Server Recovery
- Recovering Mailbox Servers Overview

#### **Lab: Preparing for and Recovering from Mailbox Server Failures**

- Performing a Mailbox Server Backup
- Recovering a Mailbox Server
- Recovering Mailbox Server Data

After completing this module, students will be able to:

- Prepare for a Mailbox server recovery.
- Recover Mailbox servers.

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### **Module 9: Preparing for and Recovering from Non-Mailbox Server Failures**

After completing this module, students will be able to prepare for and recover from non-Mailbox server failures.

#### **Lessons**

- Preparing for a Non-Mailbox Server Recovery
- Recovering Non-Mailbox Servers

#### **Lab: Preparing for and Recovering from Non-Mailbox Server Failures**

- Performing a Non-Mailbox Server Backup
- Restoring a Client Access Server Certificate
- Restoring a Hub Transport Server
- Restoring an Edge Transport Server

After completing this module, students will be able to:

- Prepare for a non-Mailbox server recovery.
- Recover non-Mailbox servers

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## **Module 10: Monitoring and Troubleshooting Mail Flow**

After completing this unit, students will be able to monitor and troubleshoot mail flow.

Lessons

Overview

- Discussion: Tools for Monitoring Mail Flow
- Demonstration: Troubleshooting Message Transport Using Exchange Server 2007 Tools
- Process for Troubleshooting Internal Mail Flow
- Process for Troubleshooting External Mail Flow

### **Lab : Monitoring and Troubleshooting Mail Flow**

- Configuring MOM to Monitor Message Flow
- Troubleshooting Internet E-Mail Delivery
- Troubleshooting Spam Filtering
- Troubleshooting Outbound Internet E-mail Delivery

After completing this unit, students will be able to:

- Identify tools for monitoring mail flow.
- Describe how to troubleshoot message transport using Exchange Server 2007 tools.
- Describe the process for troubleshooting internal mail flow.
- Describe the process for troubleshooting external mail flow.
- Configure Microsoft Operations Manager (MOM) to monitor message flow.
- Identify and resolve the reason that messages are not being delivered to and from the Internet.
- Identify and resolve the cause for spam filters blocking messages.

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## **Module 11: Monitoring and Troubleshooting Mailbox Servers**

After completing this unit, students will be able to monitor and troubleshoot mailbox servers.

**Lessons**

- Tools for Monitoring and Troubleshooting Mailbox Servers
- Process for Troubleshooting Mailbox Servers
- Demonstration: Troubleshooting Mailbox Server Performance Issues

### **Lab : Monitoring and Troubleshooting Mailbox Servers**

- Configuring the monitoring of Mailbox servers
- Troubleshooting a Mailbox Logon Issue
- Troubleshooting a Hard Disk Failure
- Troubleshooting a Mailbox Database Mounting Issue

After completing this unit, students will be able to:

- Identify the tools for monitoring Exchange Mailbox servers.
- Implement a process for troubleshooting Exchange Mailbox servers.
- Describe the guidelines for resolving performance issues for Exchange Server roles.
- Configure Microsoft Operations Manager (MOM) to monitor Mailbox servers.
- Identify the cause for users not being able to log on to their mailboxes and resolve the issue.
- Identify the reasons why a mailbox store cannot be mounted and resolve the issue.
- Identify the reasons why a user cannot access a message and resolve the issue.

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## **Module 12: Designing Active Directory and Message Routing**

This module explains how to design an Active Directory and message routing infrastructure.

### Lessons

- Designing an Active Directory Infrastructure
- Designing Message Routing
- Designing the Message Routing Perimeter

### Lab: Designing Active Directory and Message Routing

- Exercise 1: Designing a Message Routing Topology
- Exercise 2: Designing a Messaging Perimeter
- Exercise 3: Discussion: Improving an Active Directory and Message Routing Design

After completing this module, students will be able to:

- Design an Active Directory infrastructure that is optimized for Exchange Server 2007.
- Design a message routing topology.
- Design the messaging routing perimeter.

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### Module 13: Designing Exchange Servers

This module explains how to design Exchange Server configurations.

### Lessons

- Designing Mailbox Servers
- Designing Non-Mailbox Servers
- Designing a Public Folder Architecture
- Designing a Lab Environment

### Lab: Designing Exchange Servers

- Exercise 1: Planning an Exchange Server Deployment
- Exercise 2: Defining Test Lab Requirements

After completing this module, students will be able to:

- Design Mailbox server configurations.
- Design configurations for other servers running Exchange Server 2007.
- Design a public folder architecture.
- Design a test lab.

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### Module 14: Designing an Exchange Server 2007 Upgrade Strategy

This module explains how to design a strategy for upgrading to Exchange Server 2007.

### Lessons

- Overview of Available Upgrade Strategies
- Designing a Transition From Previous Versions of Exchange
- Designing a Migration From Other Messaging Systems

### Lab: Designing an Upgrade Strategy

- Exercise 1: Discussion: Reviewing the Exchange Server 2007 Design
- Exercise 2: Designing an Upgrade Strategy

After completing this module, students will be able to:

- Describe the Exchange upgrade terminology and strategies.
- Design a transition strategy for upgrading from previous Exchange Server versions.
- Design a migration strategy for upgrading from other messaging systems.

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### Module 15: Evaluating High Availability Technologies for Exchange Server 2007

This module explains how to evaluate the high availability technologies for Exchange Server 2007. Options for Mailbox and non-Mailbox servers are covered.

### Lessons

- Evaluating High Availability Options for Mailbox Servers
- Evaluating High Availability Options for Non-Mailbox Servers

**Lab A: Evaluating High Availability Messaging Technologies**

- Exercise 1: Configuring LCR
- Exercise 2: Configuring CCR

**Lab B: Evaluating High Availability Messaging Technologies**

- Exercise 1: Testing CCR
- Exercise 2: Discussion: Recommendations for Using the High Availability Solutions

After completing this module, students will be able to:

- Evaluate high availability options for Mailbox servers.
- Evaluate high availability options for non-Mailbox servers

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**Module 16: Creating a High Availability Messaging Strategy**

This module explains how to create a high availability messaging strategy. This includes creating solutions for Mailbox and non-mailbox servers.

**Lessons**

- Designing a High Availability Strategy for Mailbox Servers
- Designing a High Availability Solution for Non-Mailbox Servers

**Lab: Creating a High Availability Messaging Strategy**

- Exercise 1: Designing High-Availability Improvements for a Messaging Infrastructure

- Exercise 2: Justifying Messaging Infrastructure Design Decisions

After completing this module, students will be able to:

- Design a high availability strategy for Mailbox servers.
- Design a high availability solution for non-Mailbox servers.

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**Module 17: Designing the Messaging Portion of a Business Continuity Plan**

This module explains how to design the messaging portion of a business continuity plan. As well, information about identifying threats to the messaging organization and mitigating those threats is covered.

**Lessons**

- Overview of Business Continuity Planning
- Identifying Threats to the Messaging Organization
- Mitigating Threats to the Messaging Organization
- Designing the Business Continuity Plan

**Lab: Designing the Messaging Portion of a Business Continuity Plan**

- Exercise 1: Identifying Risks to a Messaging Environment
- Exercise 2: Discussion: Mitigating Risks to a Messaging Environment

After completing this module, students will be able to:

- Describe business continuity planning.
- Identify threats to the messaging organization.

- Mitigate threats to the messaging organization.
- Design the business continuity plan.

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### **Module 18: Designing Backup for a High Availability Messaging Environment**

This module explains how to identify the backup requirements and design the backup procedures for a high availability messaging environment.

#### **Lessons**

- Identifying Backup Requirements
- Designing Backup Procedures

### **Lab: Designing Backup for a High Availability Messaging Environment**

- Exercise 1: Identifying Backup Requirements
- Exercise 2: Discussion: Creating Backup Procedures

After completing this module, students will be able to:

- Identify backup requirements.
- Design backup procedures.

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### **Module 19: Ensuring Recovery Readiness of a High Availability Messaging Environment**

This module explains how to ensure recovery readiness of a high availability messaging environment by designing recovery strategies and evaluating disaster recovery readiness.

#### **Lessons**

- Designing Recovery Strategies
- Evaluating Disaster Recovery Readiness

### **Lab: Ensuring Recovery Readiness of a High Availability Messaging Environment**

- Exercise 1: Defining Recovery Procedures
- Exercise 2: Evaluating Disaster Recovery Readiness

After completing this module, students will be able to:

- Design recovery strategies.
- Evaluate disaster recovery readiness.