

**Module Title : Course 20342A: Advanced Solutions of Microsoft Exchange Server 2013**

**Duration : 5 days**

## Course Description

This course will provide you with the knowledge and skills to configure and manage a Microsoft Exchange Server 2013 messaging environment. This course will teach you how to configure Exchange Server 2013, and it will provide guidelines, best practices, and considerations that will help you optimize your Exchange Server deployment.

## Audience

This course is intended for people aspiring to be enterprise-level messaging administrators. Others who may take this course include IT generalists and help desk professionals who want to learn about Exchange Server 2013. People coming into the course are expected to have at least 3 years of experience working in the IT field—typically in the areas of network administration, help desk, or system administration. Students are expected to have experience with Exchange Server 2013 or with previous versions of Exchange Server.

In addition, this course is intended as preparation material for IT professionals who are looking to take the exam 70-342A: Microsoft Exchange Server 2013, Advanced Solutions, as a stand-alone, or as part of the requirement for the MCSE: Microsoft Exchange Server 2013 certification.

## Prerequisites

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- Passed 70-341: Core Solutions of Microsoft Exchange Server 2013, or equivalent
- Minimum of two years of experience working with Exchange Server
- Minimum of six months of experience working with Exchange Server 2010 or Exchange Server 2013
- Minimum of two years of experience administering Windows Server, including Windows Server 2008 R2 or Windows Server 2012
- Minimum of two years of experience working with Active Directory
- Minimum of two years of experience working with name resolution, including DNS
- Experience working with certificates, including public key infrastructure (PKI) certificates
- Experience working with Windows PowerShell

Students who attend this training can meet the prerequisites by attending the following courses, or by obtaining equivalent knowledge and skills:

- Course 20341: Core Solutions of Microsoft Exchange Server 2013

## At Course Completion

After completing this course, students will be able to:

- Design and implement Exchange Server 2013 Unified Messaging.
- Design and implement site resiliency for Exchange Server 2013.
- Plan a virtualization strategy for Exchange Server 2013 roles.
- Design and implement message transport security.
- Design and implement message retention in Exchange Server 2013.
- Design and implement messaging compliance.
- Design and implement administrative security in an Exchange Server 2013 environment.
- Use Windows PowerShell 3.0 to manage Exchange Server 2013.
- Design and implement integration with Exchange Online.
- Design and implement messaging coexistence.
- Design and implement Exchange Server migrations from non-Exchange messaging systems, and upgrades from previous Exchange Server versions.

## Course Outline

### Module 1: Overview of Exchange Server 2013 Unified Messaging

This module explains the basic concept of Unified Messaging in Exchange Server 2013.

#### Lessons

- Lesson 1: Telephony technologies overview
- Lesson 2: Unified Messaging in Exchange Server 2013
- Lesson 3: Unified Messaging components

#### Lab : Unified Messaging Overview

- Exercise 1: Identifying Unified Messaging components

After completing this module, students will be able to explain the basic concept of Unified Messaging in Exchange Server 2013.

### Module 2: Designing and implementing Exchange Server 2013 Unified Messaging

This module explains how to design and implement Exchange Server 2013 Unified Messaging.

#### Lessons

- Lesson 1: Designing a Unified Messaging deployment
- Lesson 2: Deploying and configuring Unified Messaging components
- Lesson 3: Integrating Exchange Server 2013 Unified Messaging with Lync

**Lab : Designing and Implementing Exchange Server 2013 Unified Messaging**

- Exercise 1: Designing the Unified Messaging implementation
- Exercise 2: Configuring Unified Messaging features
- Exercise 3: Configuring Unified Messaging integration with Lync Server 2013

After completing this module, students will be able to design and implement Exchange Server 2013 Unified Messaging.

**Module 3: Designing and implementing site resiliency**

This module explains how to design and implement site resiliency for Exchange Server 2013.

**Lessons**

- Lesson 1: Site resiliency in Exchange Server 2013
- Lesson 2: Planning a site resilient implementation
- Lesson 3: Implementing site resiliency

**Lab : Designing and implementing site resiliency**

- Exercise 1: Designing a site resilient solution
- Exercise 2: Implementing site resiliency
- Exercise 3: Validating site resiliency

After completing this module, students will be able to design and implement site resiliency for Exchange Server 2013.

**Module 4: Planning virtualization for Exchange Server 2013** This module explains how to plan a virtualization strategy for Exchange Server 2013 roles.

**Lessons**

- Lesson 1: Hyper-V 3.0 overview
- Lesson 2: Virtualizing Exchange Server 2013 server roles

**Lab : Planning virtualization of Exchange Server roles**

- Exercise 1: Designing an Exchange Server 2013 deployment for a large organization
- Exercise 2: Designing an Exchange Server 2013 deployment for a medium organization
- Exercise 3: Designing an Exchange Server 2013 deployment for a medium complex organization

After completing this module, students will be able to plan a virtualization strategy for Exchange Server 2013 roles.

## Module 5: Designing and implementing message transport security

This module explains how to design and implement message transport security.

### Lessons

- Lesson 1: Overview of policy and compliance requirements
- Lesson 2: Designing and implementing transport compliance
- Lesson 3: Designing and implementing AD RMS integration with Exchange Server 2013

### Lab : Designing and implementing message transport security

- Exercise 1: Planning a message transport implementation
- Exercise 2: Implementing message transport security
- Exercise 3: Implementing AD RMS and Exchange Server integration

After completing this module, students will be able to design and implement message transport security.

## Module 6: Designing and implementing message retention

This module explains how to design and implement message retention in Exchange Server 2013.

### Lessons

- Lesson 1: Message records management and archiving overview
- Lesson 2: Designing in-place archiving
- Lesson 3: Designing and implementing message retention

### Lab : Designing and implementing message retention

- Exercise 1: Designing message retention and archiving
- Exercise 2: Implementing message retention and archiving

After completing this module, students will be able to design and implement message retention in Exchange Server 2013.

## Module 7: Designing and implementing messaging compliance

This module explains how to design and implement messaging compliance.

### Lessons

- Lesson 1: Designing and implementing data loss prevention
- Lesson 2: Designing and implementing an in-place hold
- Lesson 3: Designing and implementing in-place e-discovery

### Lab : Designing and implementing messaging compliance

- Exercise 1: Designing messaging compliance
- Exercise 2: Implementing data loss prevention
- Exercise 3: Implementing in-place e-discovery
- Exercise 4: Comparing messaging policy and compliance options

After completing this module, students will be able to design and implement messaging compliance.

### **Module 8: Designing and implementing administrative security and auditing**

This module explains how to design and implement administrative security in an Exchange Server 2013 environment.

#### **Lessons**

- Lesson 1: Designing and implementing role based access control
- Lesson 2: Designing and implementing split permissions
- Lesson 3: Planning and implementing audit logging

#### **Lab : Designing and implementing administrative security and auditing**

- Exercise 1: Designing a solution to fulfill requirements
- Exercise 2: Implementing role based access control
- Exercise 3: Implementing mailbox access and administrative logging
- Exercise 4: Implementing and testing split permissions

After completing this module, students will be able to design and implement administrative security in an Exchange Server 2013 environment.

### **Module 9: Managing Exchange Server 2013 with Exchange Management Shell**

This module explains how to use Windows PowerShell 3.0 to manage Exchange Server 2013.

#### **Lessons**

- Lesson 1: Overview of Windows PowerShell 3.0
- Lesson 2: Using Exchange Management Shell to manage Exchange Server recipients
- Lesson 3: Managing Exchange Server 2013 with Exchange Management Shell

#### **Lab : Managing Exchange Server 2013 with Exchange Management Shell**

- Exercise 1: Exploring Exchange Management Shell
- Exercise 2: Using Exchange Management Shell to manage recipients

After completing this module, students will be able to use Windows PowerShell 3.0 to manage Exchange Server 2013.

### **Module 10: Designing and implementing integration with Exchange Online**

This module explains how to design and implement integration with Exchange Online.

#### **Lessons**

- Lesson 1: Planning for Exchange Online
- Lesson 2: Planning and implementing the migration to Exchange Online
- Lesson 3: Planning coexistence with Exchange Online

**Lab : Designing integration with Exchange Online**

- Exercise 1: Designing integration with Exchange Online
- Exercise 2: Implementing integration with Exchange Online

After completing this module, students will be able to design and implement integration with Exchange Online.

**Module 11: Designing and implementing messaging coexistence**

This module explains how to design and implement messaging coexistence.

**Lessons**

- Lesson 1: Designing and implementing federation
- Lesson 2: Designing coexistence between Exchange organizations
- Lesson 3: Designing and implementing cross-forest mailbox moves

**Lab : Implementing messaging coexistence**

- Exercise 1: Implementing Message Routing Coexistence
- Exercise 2: Migrating user mailboxes
- Exercise 3: Configuring administrative coexistence

After completing this module, students will be able to design and implement messaging coexistence.

**Module 12: Designing and implementing Exchange Server migrations and upgrades**

This module explains how to design and implement Exchange Server migrations from non-Exchange messaging systems, and upgrades from previous Exchange Server versions.

**Lessons**

- Lesson 1: Designing migration from non-Exchange email systems
- Lesson 2: Planning the upgrade from previous Exchange versions
- Lesson 3: Implementing the migration from previous Exchange versions

**Lab : Designing and implementing Exchange Server migrations**

- Exercise 1: Planning the migration strategy
- Exercise 2: Deploying Exchange Server 2013 in an Exchange Server 2007 organization
- Exercise 3: Migrating all messaging components to Exchange Server 2013
- Exercise 4: Removing the Exchange Server 2007 server

After completing this module, students will be able to design and implement Exchange Server migrations from non-Exchange messaging systems, and upgrades from previous Exchange Server versions.