Designing and Deploying Microsoft Exchange Server 2016 (20345-2)

**DELIVERY METHODS**

**ILT – Instructor-Led Classroom Training**
ILT sessions are conducted in a physical classroom environment.

**ILO – Instructor-Led Online Training**
ILO sessions are conducted via WebEx in a VoIP environment.

**FLEX Classroom™ – Combined ILT & ILO**
FLEX Classroom sessions are delivered via ILT and ILO giving you the ultimate flexibility.

**ID** MS-20345-2  **Price** US$ 2,895  **Duration** 5 days

**Who should attend**
IT professionals who are:

- Experienced messaging administrators, messaging architects, or consultants
- Responsible for designing and deploying Exchange Server 2016 solutions, including environments that contain previous versions of Exchange Server or Exchange Online

**Prerequisites**
- Attended 20345-1 or have equivalent knowledge
- Minimum two years of experience working with any version of Exchange Server
- Minimum of six months of experience working with Exchange Server 2013 or Exchange Server 2016
- Minimum of two years of experience administering the Windows Server 2012 R2
- Minimum two years of experience working with Active Directory Domain Services (AD DS)
- Minimum of two years of experience working with name resolution, including Domain Name System (DNS)
- Experience working with certificates, including public key infrastructure (PKI) certificates
- Experience working with Windows Powershell

**Course Objectives**
- Plan for Exchange Server deployments
- Plan and deploy Exchange Server 2016 Mailbox services
- Plan and deploy message transport
- Plan and deploy client access
- Design and implement high availability
- Maintain Exchange Server 2016
- Design messaging security
- Design and implement message retention
- Design messaging compliance
- Design and implement messaging coexistence
- Upgrade to Exchange Server 2016
- Plan a hybrid Exchange Server deployment

**Course Content**
Designing and Deploying Microsoft Exchange Server 2016 is a 5-day, instructor-led course for experienced Exchange Server administrators that teaches you how to design and implement an Exchange Server 2016 messaging environment. You will learn how to design and configure advanced components in an Exchange Server 2016 deployment such as site resiliency, advanced security, compliance, archiving, and discovery solutions. In addition, you will learn about coexistence with other Exchange organizations or Exchange Online, and migration from previous versions of Exchange Server. The course will provide guidelines, best practices, and
considerations that will help you optimize your Exchange Server deployment.

This course along with Administering Microsoft Exchange Server 2016 (20345-1) will prepare you to take exam 70-345: Designing and Deploying Microsoft Exchange Server 2016. After passing this exam you will earn the MCSE: Microsoft Exchange Server 2016 certification.

Detailed Course Outline

Module 1: Planning Exchange Server 2016 deployments
- New features in Exchange Server 2016
- Gathering business requirements for an Exchange Server 2016 deployment
- Planning for an Exchange Server deployment
- Designing a Unified Messaging (UM) deployment

Module 2: Planning and deploying Exchange Server 2016 Mailbox services
- Planning Exchange Server hardware requirements
- Planning Exchange Server for virtualization and Microsoft Azure integration
- Planning and implementing public folders

Module 3: Planning and deploying message transport
- Designing message routing
- Transport services design
- Designing the message-routing perimeter
- Designing and implementing transport compliance

Module 4: Planning and deploying client access
- Planning for Exchange Server 2016 clients
- Planning for client access
- Planning and implementing Office Online Server
- Planning and implementing coexistence of SharePoint 2016 with Exchange
- Designing external client access

Module 5: Designing and implementing high availability
- Planning high availability for Exchange Server 2016
- Planning for load balancing
- Planning for site resilience

Module 6: Maintaining Exchange Server 2016
- Using Managed Availability to improve high availability
- Implementing DSC

Module 7: Designing messaging security
- Planning messaging security
- Planning and implementing AD RMS and Azure RMS integration

Module 8: Designing and implementing message retention
- Overview of messaging records management and archiving
- Designing In-Place Archiving
- Designing and implementing message retention

Module 9: Designing messaging compliance
- Designing and implementing data loss prevention
- Designing and implementing In-Place Hold
- Designing and implementing In-Place eDiscovery
**Module 10: Designing and implementing messaging coexistence**

- Designing and implementing federation
- Designing coexistence between Exchange organizations
- Designing and implementing cross-forest mailbox moves

**Module 11: Upgrading to Exchange Server 2016**

- Planning an upgrade from previous Exchange Server versions
- Implementing the upgrade from previous Exchange Server versions

**Module 12: Planning a hybrid Exchange Server deployment**

- Basics of a hybrid deployment
- Planning and implementing a hybrid deployment
- Implementing advanced functionality for hybrid deployments

**Labs**

- Planning Exchange Server 2016 deployments
  - Evaluating an existing messaging infrastructure
  - Identifying requirements
  - Discussion: Deployment design for Exchange Server 2016
- Planning and implementing Exchange virtualization, mailbox databases, and public folders
  - Planning for virtualization
  - Planning for mailbox databases
  - Implementing mailbox databases
  - Planning and implementing public folders
- Planning and deploying message transport
  - Planning for a redundant and secure message transport
  - Planning and deploying client access solutions
  - Planning and configuring namespaces
  - Planning and configuring client access services options
  - Planning and deploying Office Online Server
  - Planning and implementing reverse proxy
- Designing and implementing site resiliency
  - Creating a lag database copy
  - Recovering data from a lagged database copy
  - Implementing site resilience
  - Validating site resilience
- Maintaining Exchange Server 2016
  - Using Windows PowerShell to investigate and configure Managed Availability
  - Implementing DSC
- Designing messaging security
  - Implementing AD RMS
  - Integrating AD RMS with Exchange Server
  - Creating a message transport rule to protect email
  - Protecting an email with AD RMS
- Designing and implementing message retention
  - Designing message retention and archiving
  - Implementing message retention and archiving
- Implementing messaging coexistence
  - Implementing message-routing coexistence
  - Migrating user mailboxes
- Designing and implementing messaging compliance
  - Designing messaging compliance
  - Implementing data loss prevention
  - Implementing In-Place eDiscovery
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- Comparing messaging policy and compliance options
- Upgrading from Exchange Server 2013 to Exchange Server 2016
  - Documenting the Exchange Server 2013 organization
  - Deploying Exchange Server 2016
  - Upgrading from Exchange Server 2013 to Exchange Server 2016
  - Removing Exchange Server 2013
- Designing the integration with Exchange Online