

## 20345-2 Designing and Deploying Microsoft Exchange Server 2016

### Overview

In this course, students 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.

### Prerequisites

- 20345-1 Administering Microsoft Exchange Server 2016

### Prerequisite Comments

Before attending this course, students must have: A+ certification or equivalent knowledge; Network+ certification or equivalent knowledge; Completed Course 2028A; Basic Administration of Microsoft Windows 2000 or have equivalent knowledge of administrative tasks. In addition to professional experience, students who attend this training should already have the following technical knowledge: Attended course 20345-1A: Administering Exchange Server 2016; 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.

### Target Audience

This course is intended for IT professionals who are experienced messaging administrators, messaging architects, or consultants. This course is designed for professionals in an enterprise environment who are responsible for designing and deploying Exchange Server 2016 solutions, including environments that contain previous versions of Exchange Server or Exchange Online. Students are expected to have experience with Exchange Server 2016 or previous versions of Exchange Server. This course is also intended as preparation material for IT professionals who are looking to take the 70-345: Designing and Deploying Microsoft Exchange Server 2016 exam as part of the requirement for the MCSE: Microsoft Exchange Server 2016 certification.

### Course Objectives

After completing this course, students will be able to:

- Plan for Exchange Server deployments.
- Plan and deploy Exchange Server 2016 Mailbox services.
- Plan and deploy message transport.
- Plan and deploy client access.

[Register Online](#)

### Schedule

Class Length: 5 Days

| G2R = "Guaranteed to Run"   OLL = "Online LIVE"<br>ILT = "Instructor-Led-Training" |     |                  |                  |     |          |
|--|-----|------------------|------------------|-----|----------|
| 29/10/18   | G2R | 1:00PM - 9:00PM  | Lisbon, Portugal | OLL | EUR 2975 |
| 29/10/18   | G2R | 1:00PM - 9:00PM  | Lisbon, Portugal | OLL | EUR 2750 |
| 17/12/18   | G2R | 2:00PM - 10:00PM | Lisbon, Portugal | OLL | EUR 2975 |
| 17/12/18   | G2R | 2:00PM - 10:00PM | Lisbon, Portugal | OLL | EUR 2750 |
| 28/01/19   | G2R | 2:00PM - 10:00PM | Lisbon, Portugal | OLL | EUR 2975 |
| 18/02/19   | G2R | 4:00PM - 12:00AM | Lisbon, Portugal | OLL | EUR 2975 |
| 11/03/19   | G2R | 1:00PM - 9:00PM  | Lisbon, Portugal | OLL | EUR 2975 |
| 22/04/19   | G2R | 2:00PM - 10:00PM | Lisbon, Portugal | OLL | EUR 2975 |
| 13/05/19   | G2R | 2:00PM - 10:00PM | Lisbon, Portugal | OLL | EUR 2975 |
| 10/06/19   | G2R | 4:00PM - 12:00AM | Lisbon, Portugal | OLL | EUR 2975 |
| 08/07/19   | G2R | 2:00PM - 10:00PM | Lisbon, Portugal | OLL | EUR 2975 |

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 Outline

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### 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  
Lab: Planning Exchange Server 2016 deployments

### 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  
Lab: Planning and implementing Exchange virtualization, mailbox databases, and public folders

### Planning and deploying message transport

Designing message routing  
Designing transport services  
Designing the message-routing perimeter  
Designing and implementing transport compliance  
Lab: Planning and deploying message transport

### 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  
Lab: Planning and deploying client access solutions

### Designing and implementing high availability

Planning high availability for Exchange Server 2016  
Planning for load balancing  
Planning for site resilience  
Lab: Designing and implementing site resiliency

## **Maintaining Exchange Server 2016**

Using Managed Availability to improve high availability  
Implementing DSC  
Lab: Maintaining Exchange Server 2016

## **Designing messaging security**

Planning messaging security  
Designing and implementing AD RMS and Azure RMS integration  
Lab: Designing messaging security

## **Designing and implementing message retention**

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

## **Designing messaging compliance**

Designing and implementing data loss prevention  
Designing and implementing In-Place Hold  
Designing and implementing In-Place eDiscovery  
Lab: Designing and implementing messaging compliance

## **Designing and implementing messaging coexistence**

Designing and implementing federation  
Designing coexistence between Exchange organizations  
Designing and implementing cross-forest mailbox moves  
Lab: Implementing messaging coexistence

## **Upgrading to Exchange Server 2016**

Planning an upgrade from previous Exchange Server versions  
Implementing the upgrade from previous Exchange Server versions  
Lab: Upgrading from Exchange Server 2013 to Exchange Server 2016

## **Planning a hybrid Exchange Server deployment**

Basics of a hybrid deployment  
Planning and implementing a hybrid deployment  
Implementing advanced functionality for hybrid deployments  
Lab: Designing the integration with Exchange Online

## **Related Courses, Certifications, Exams**

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- 20345-1 Administering Microsoft Exchange Server 2016