



## Microsoft Exchange Server-2016

### About this course

This 40 Hours instructor-led course teaches IT professionals how to administer and support Exchange Server 2016 and experienced Exchange Server administrators with the knowledge to design and implement an Exchange Server 2016 messaging environment. Students will learn how to install Exchange Server 2016, and how to configure and manage an Exchange Server environment and 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, students will learn about coexistence with other Exchange organizations or Exchange Online, and migration from previous versions of Exchange Server. The course covers how to manage mail recipients and public folders, including how to perform bulk operations using Exchange Management Shell. Students also will learn how to manage client connectivity, message transport and hygiene, how to implement and manage highly available Exchange Server deployments, and how to implement back up and disaster recovery solutions, course will provide guidelines, best practices, and considerations that will help students optimize their Exchange Server deployment.

### Course Objectives:

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This course will teach you how to configure Exchange Server 2016, as well as provide guidelines, best practices, and considerations that will help you optimize your Exchange Server deployment.

- Install and deploy Exchange Server 2016
- Configure Mailbox servers and Mailbox server components
- Configure the Client Access server role in Exchange Server 2016
- Configure message transport in Exchange Server 2016
- Implement a high availability solution for Mailbox, server roles in Exchange Server
- Configure Exchange Server permissions and configure Exchange Server access security
- Transition an Exchange Server 2003 or Exchange Server 2007 to Exchange Server 2016
- Configure the Unified Messaging Server role and Unified Messaging components

### Audience Profile:

This course is primarily intended for people aspiring to become enterprise-level messaging administrators for Exchange Server 2016. IT generalists and help-desk professionals who want to learn about Exchange Server 2016 might also take this course. Students taking this course are expected to have at least two years of experience working in the IT field—typically in the areas of Windows Server administration, network administration, help desk, or system administration. They are not expected to have experience with previous Exchange Server versions.

The secondary audience for this course includes IT professionals who take this course as preparation material for exam 70-345: Designing and Deploying Microsoft Exchange Server 2016, or as part of the requirement for the MCSE: Microsoft Exchange Server 2016 certification.

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**Prerequisites:**

Before attending this course, students must have:

- A minimum two years of experience administering Windows Server, including Windows Server 2012 R2 or Windows Server 2016.
- A minimum two years' experience working with active Directory Domain Services (AD DS). A minimum two years of experience working with name resolution including Domain Name System (DNS).
- Understanding of TCP/IP and networking concepts.
- Understanding of Windows Server 2012 R2 or later, and AD DS, including planning, designing, and deploying.
- Understanding of security concepts such as authentication and authorization.
- Understanding of Simple Mail Transfer Protocol (SMTP).
- Working knowledge of public key infrastructure (PKI) technologies, including Active Directory Certificate Services (AD CS).

**Course Duration:**

40 Hours,

**Exam Cover**

Exam 70-345: Administering Microsoft Exchange Server 2016

Exam 70-342: Designing and Deploying Microsoft Exchange Server 2016

**Details Course Outline**

**Course 20345-1A: Administering Microsoft Exchange Server 2016 (Exam 70-345)**

<p><b>Module 1: Deploying Microsoft Exchange Server 2016</b></p> <ul style="list-style-type: none"> <li>• Overview of Exchange Server 2016</li> <li>• Requirements and deployment options for Exchange Server 2016</li> </ul> <p><b>Module 2: Managing Microsoft Exchange Server 2016 servers</b></p> <ul style="list-style-type: none"> <li>• Exchange Server 2016 management</li> <li>• Overview of the Exchange 2016 Mailbox server</li> <li>• Configuring Mailbox servers</li> </ul> <p><b>Module 3: Managing recipient objects</b></p> <ul style="list-style-type: none"> <li>• Exchange Server 2016 recipients</li> <li>• Managing Exchange Server recipients</li> <li>• Configuring address lists and policies</li> </ul> <p><b>Module 4: Managing Microsoft Exchange Server 2016 and recipient objects by using Exchange Management Shell</b></p> <ul style="list-style-type: none"> <li>• Overview of the Exchange Management Shell</li> <li>• Managing Exchange Server 2016 by using Exchange Management Shell</li> <li>• Managing Exchange Server 2016 by using Exchange Management Shell scripts</li> </ul>	<p><b>Module 7: Implementing disaster recovery for Microsoft Exchange Server 2016</b></p> <ul style="list-style-type: none"> <li>• Implementing Exchange Server 2016 backup</li> <li>• Implementing Exchange Server 2016 recovery</li> </ul> <p><b>Module 8: Configuring and managing message transport</b></p> <ul style="list-style-type: none"> <li>• Overview of message transport</li> <li>• Configuring message transport</li> <li>• Managing transport rules</li> </ul> <p><b>Module 9: Configuring antivirus, antispam, and malware protection</b></p> <ul style="list-style-type: none"> <li>• Deploying and managing an Edge Transport server for message security</li> <li>• Implementing an antivirus solution for Exchange Server 2016</li> <li>• Implementing an antispam solution for Exchange Server 2016</li> </ul> <p><b>Module 10: Implementing and managing Microsoft Exchange Online deployments</b></p> <ul style="list-style-type: none"> <li>• Overview of Exchange Online and Office 365</li> <li>• Managing Exchange Online</li> </ul>
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<p><b>Module 5: Implementing client connectivity</b></p> <ul style="list-style-type: none"> <li>• Configuring client access services in Exchange Server 2016</li> <li>• Managing client services</li> <li>• Client connectivity and publishing of Exchange Server 2016 services</li> <li>• Configuring Outlook on the web</li> <li>• Configuring mobile messaging on Exchange Server 2016</li> </ul> <p><b>Module 6: Managing high availability in Exchange Server 2016</b></p> <ul style="list-style-type: none"> <li>• High availability on Exchange Server 2016</li> <li>• Configuring highly available mailbox databases</li> <li>• Configuring high availability of Client Access services.</li> </ul>	<ul style="list-style-type: none"> <li>• Implementing the migration to Exchange Online</li> </ul> <p><b>Module 11: Monitoring and troubleshooting Microsoft Exchange Server 2016</b></p> <ul style="list-style-type: none"> <li>• Monitoring Exchange Server 2016</li> <li>• Troubleshooting Exchange Server 2016</li> </ul> <p><b>Module 12: Securing and maintaining Exchange Server 2016</b></p> <ul style="list-style-type: none"> <li>• Securing Exchange Server with role-based access control (RBAC)</li> <li>• Configuring audit logging on Exchange Server 2016</li> <li>• Maintaining Exchange Server 2016</li> </ul>
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### Course 20345-2A: Designing and Deploying Microsoft Exchange Server 2016 (Exam 70-345)

<p><b>Module 1: Planning Exchange Server 2016 deployments</b></p> <ul style="list-style-type: none"> <li>• New features in Exchange Server 2016</li> <li>• Gathering business requirements for an Exchange Server 2016 deployment</li> <li>• Planning for an Exchange Server deployment</li> <li>• Designing a Unified Messaging (UM) deployment</li> </ul> <p><b>Module 2: Planning and deploying Exchange Server 2016 Mailbox services</b></p> <ul style="list-style-type: none"> <li>• Planning Exchange Server hardware requirements</li> <li>• Planning Exchange Server for virtualization and Microsoft Azure integration</li> <li>• Planning and implementing public folders</li> </ul> <p><b>Module 3: Planning and deploying message transport</b></p> <ul style="list-style-type: none"> <li>• Designing message routing</li> <li>• Designing transport services</li> <li>• Designing the message-routing perimeter</li> <li>• Designing and implementing transport compliance</li> </ul> <p><b>Module 4: Planning and deploying client access</b></p> <ul style="list-style-type: none"> <li>• Planning for Exchange Server 2016 clients</li> <li>• Planning for client access</li> </ul>	<p><b>Module 6: Maintaining Exchange Server 2016</b></p> <ul style="list-style-type: none"> <li>• Using Managed Availability to improve high availability</li> <li>• Implementing DSC</li> </ul> <p><b>Module 7: Designing messaging security</b></p> <ul style="list-style-type: none"> <li>• Planning messaging security</li> <li>• Designing and implementing AD RMS and Azure RMS integration</li> </ul> <p><b>Module 8: Designing and implementing message retention</b></p> <ul style="list-style-type: none"> <li>• Overview of messaging records management and archiving</li> <li>• Designing In-Place Archiving</li> <li>• Designing and implementing message retention</li> </ul> <p><b>Module 9: Designing messaging compliance</b></p> <ul style="list-style-type: none"> <li>• Designing and implementing data loss prevention</li> <li>• Designing and implementing In-Place Hold</li> <li>• Designing and implementing In-Place eDiscovery</li> </ul> <p><b>Module 10: Designing and implementing messaging coexistence</b></p> <ul style="list-style-type: none"> <li>• Designing and implementing federation</li> <li>• Designing coexistence between Exchange organizations</li> <li>• Designing and implementing cross-forest mailbox moves</li> </ul> <p><b>Module 11: Upgrading to Exchange Server 2016</b></p> <ul style="list-style-type: none"> <li>• Planning an upgrade from previous Exchange Server versions</li> </ul>
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<ul style="list-style-type: none"><li>• <i>Planning and implementing Office Online Server</i></li><li>• <i>Planning and implementing coexistence of SharePoint 2016 with Exchange</i></li><li>• <i>Designing external client access</i></li></ul> <p><b>Module 5: Designing and implementing high availability</b></p> <ul style="list-style-type: none"><li>• <i>Planning high availability for Exchange Server 2016</i></li><li>• <i>Planning for load balancing</i></li><li>• <i>Planning for site resilience</i></li></ul>	<ul style="list-style-type: none"><li>• <i>Implementing the upgrade from previous Exchange Server versions</i></li></ul> <p><b>Module 12: Planning a hybrid Exchange Server deployment</b></p> <ul style="list-style-type: none"><li>• <i>Basics of a hybrid deployment</i></li><li>• <i>Planning and implementing a hybrid deployment</i></li><li>• <i>Implementing advanced functionality for hybrid deployments</i></li></ul>
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