



Hewlett Packard Enterprise

Course Datasheet

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

Education Services course product number – H0LR0S

Course length – 5 days

Delivery mode – Instructor Led Training (ILT)

Virtual Instructor Led Training (vILT)

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This course provides experienced Exchange Server administrators with the knowledge to design and implement an Exchange Server 2016 messaging environment. 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. In addition, students 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 students optimize their Exchange Server deployment.

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.

Prerequisites

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, 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

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.
- 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 Modules

- **Module 1: Planning Exchange Server 2016 deployments**
This module explains the requirements and considerations for planning an Exchange Server deployment.
- **Module 2: Planning and deploying Exchange Server 2016 Mailbox services**
This module explains how to plan and deploy Exchange Server hardware, virtualization, mailbox databases, and public folders.
- **Module 3: Planning and deploying message transport**
This module explains how to plan and implement mail routing internally from and to the Internet, and transport-related tasks in the organization.
- **Module 4: Planning and deploying client access**
This module explains how to plan for client connectivity and client access in Exchange Server 2016. This module also describes how to implement Microsoft Office Online Server, and the coexistence of SharePoint 2016 with Exchange.

- **Module 5: Designing and implementing high availability**
This module explains how to design and implement a highly available solution for Exchange Server 2016.
- **Module 6: Maintaining Exchange Server 2016**
This module explains how to maintain Exchange Server 2016 using Managed Availability and Desired State Configuration (DSC).
- **Module 7: Designing messaging security**
This module explains how to plan for messaging security and design and implement Active Directory Rights Management Services (AD RMS) and Azure RMS in an Exchange Server organization.
- **Module 8: Designing and implementing message retention**
This module explains how to plan for archiving and message retention.
- **Module 9: Designing messaging compliance**
This module explains how to plan for and implement several Exchange features to help minimize data loss and monitor email traffic and content.
- **Module 10: Designing and implementing messaging coexistence**
This module explains how to plan and implement federation, design coexistence between Exchange organizations, and design and move mailboxes between different forests and Exchange organizations.
- **Module 11: Upgrading to Exchange Server 2016**
This module explains how to plan and implement an upgrade from previous Exchange Server 2013 or Exchange Server versions to Exchange Server 2016.
- **Module 12: Planning a hybrid Exchange Server deployment**
This module explains how to plan and implement a hybrid deployment for Exchange Server 2016.