

HDTC Training Center Provide

Technical proposal of the Training program Administering Microsoft Exchange Server 2016/2019



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Course Overview:

The course Administering Microsoft Exchange Server 2016/2019 course is a comprehensive training program designed for IT professionals who aspire to administer and support Exchange Server 2016/2019 environments. Covering both the deployment and management aspects of Exchange Server, the course provides learners with the necessary skills to maintain, optimize, and troubleshoot Exchange Server infrastructure for efficient and secure operations. Starting with an overview of Exchange Server, learners gain insight into the architecture and requirements for deploying Exchange Server, including the Exchange Server 2016 and Exchange Server 2019 cost considerations. Practical labs reinforce the deployment process, including the use of Exchange Server Management Tools. As the course progresses, students learn to manage storage, recipient objects, and Client connectivity, leveraging both the graphical interface and Exchange Management Shell cmdlets. High availability, disaster recovery, Message transport, security, and compliance are also key components, ensuring that students can secure and maintain a robust messaging environment. The course concludes with modules on monitoring, troubleshooting, and managing Exchange Online deployments, equipping learners with the versatility to handle both on-premises and cloud-based Exchange infrastructures.

General Objective:

This course equips participants with comprehensive skills to administer and manage Microsoft Exchange Server 2016/2019, ensuring efficient and secure mail server operation.

Program Objectives:

By the end of this program, participants will be able to:

- Understand the architecture and deployment requirements of Exchange Server 2016/2019.
- Deploy, configure, and manage Exchange Server and utilize management tools effectively.
- Manage Exchange Server mailbox databases and configure storage options for performance and resilience.
- Administer recipient objects, including user mailboxes, groups, and address lists, using both GUI and PowerShell.
- Implement and manage client connectivity for Exchange Server, configuring services like Outlook on the web and mobile messaging.
- Configure high availability for mailbox databases and client access services to ensure continuous mail system operation.
- Perform disaster recovery operations, including backup and restore procedures for Exchange Server.
- Manage and secure message transport, implementing transport rules, and overseeing message hygiene with antispam and antivirus solutions.
- Monitor Exchange Server performance and troubleshoot issues to maintain service health and reliability.
- Secure Exchange Server using Role-Based Access Control (RBAC), implement audit logging, and perform regular maintenance tasks.

Program Outlines:

Module 1: Deploying Exchange Server

- Overview of Exchange Server
- Exchange Server architecture
- Requirements for Exchange Server
- Deploying Exchange Server Exchange Server
- Exchange Server Management Tools

Module 2: Managing Exchange Server 2016 storage

- Exchange Server mailbox databases
- Exchange Server storage
- Configuring Exchange Server mailbox databases and storage

Module 3: Managing recipient objects

- Managing user mailboxes
- Managing other types of mailboxes
- Managing other recipients objects
- Configuring policies and address lists

Module 4: Managing recipients and Exchange servers by using Exchange Server cmdlets

- Overview of the Exchange Management Shell
- Managing Exchange Servers by using Exchange Management Shell cmdlets
- Managing Exchange servers by using scripts

Module 5: Implementing client connectivity

- Configuring client access services
- Managing client access services
- Client connectivity in Exchange Server
- Configuring Outlook on the web
- Configuring mobile messaging

Module 6: Managing high availability in Exchange Server

- High availability on Exchange Server
- Configuring highly available mailbox databases
- Configuring high availability of Client Access services

Module 7: Implementing disaster recovery for Exchange Server

- Implementing Exchange Server backup
- Implementing Exchange Server recovery

Module 8: Configuring and managing message transport

- Overview of message transport
- Configuring message transport
- Managing transport rules

Module 9: Configuring message security

- Deploying and managing an Edge Transport server for message security
- Implementing an antivirus solution for Exchange Server
- Implementing an antispam solution for Exchange Server

Module 10: Monitoring and troubleshooting Exchange Server

- Monitoring Exchange Server
- Troubleshooting Exchange Server

Module 11: Securing and maintaining Exchange Server

- Securing Exchange Server by using RBAC
- Configuring audit logging in Exchange Server
- Maintaining Exchange Server

Module 12: Implementing and managing Exchange Online deployments

- Overview of Exchange Online and Office 365
- Managing Exchange Online
- Implementing the migration to Exchange Online
- Managing a hybrid environment

Target Audience:

- IT professionals responsible for managing Exchange Servers
- Systems administrators
- Network administrators
- Messaging administrators
- Support technicians working with Exchange Server environments
- Technical consultants who design and implement messaging solutions for enterprises
- IT generalists who wish to learn about Exchange Server 2016/2019
- Help desk professionals looking to advance their skills in Exchange Server management
- IT professionals seeking certification in Microsoft Exchange Server as part of career growth

Training methods:

- Technology-Based Learning.
- Simulation in Training.
- On-the-job guidance.
- Trainer-Led Training.
- Work Teams and Roles.
- Films and Videos.
- Case Studies and Workshops.