

55345AC: Implementing and Managing Windows 11

Duration: 4 Days

Course Description:

This four-day course provides the knowledge and skills required to install and configure Windows 11 desktops and devices in an on-premises Windows Server Active Directory domain environment. It covers installation and customization of Windows 11 operating systems and apps, configuration of local and remote network connectivity and storage, data security, device security, network security, and maintenance, update, and recovery of Windows 11.

This course provides a comprehensive guide to installing, configuring, and managing Windows 11. It begins with an introduction to the new features of Windows 11, the hardware requirements, and the interactive installation process. It also covers various deployment options for larger networks and provides a review of the new user interface.

The course then discusses the various upgrade and migration options available for installers, as well as how to manage Windows 11 updates. It also covers how to migrate user state following an upgrade or migration.

The course provides guidance on configuring network settings, including how to set up and manage a VPN. It also covers how to complete typical post-installation configuration options for Windows 11, using both the Settings app and Control Panel.

The course provides an overview of typical disk configurations for a Windows 11 computer and provides guidance on how to manage both local storage and how to configure access to remote storage, such as OneDrive. It also covers how to enable and configure Storage Spaces.

The course also covers how to manage resources, including configuring and managing access to shared files, implementing file synchronization using Work Folders, and managing printer access. It also provides an overview of supported file systems and explains use-case scenarios for each. The course then discusses how to deploy apps to Windows 11 devices, how to troubleshoot apps, and how to configure Microsoft Edge browser settings. It also covers how to manage access to the Microsoft Store.

The course concludes with a focus on implementing and managing security, including managing user and group accounts, configuring User Account Control, implementing BitLocker, and securing against network threats. It also covers how to monitor Windows 11, optimize its performance, and troubleshoot issues related to hardware devices and device drivers. It also covers how to recover Windows 11 computers that won't start, or start with errors, and how to recover files. The course spans over four days and is aimed at IT professionals who support Windows 11 desktops, devices, users, and associated network and security resources.

Prerequisites:

- Experience installing PC hardware and devices.
- Basic Windows and Active Directory knowledge.
- Knowledge of networking fundamentals.
- Knowledge of Microsoft Active Directory Domain Services (AD DS) principles and fundamentals of AD DS management
- Fundamental understanding of Windows Server.
- Understanding of Microsoft Windows Client essentials; for example, working knowledge of Windows 10 or Windows 11
- Basic understanding of Windows PowerShell syntax

Course Objectives:

- Install and configure Windows 11 desktops and devices in a Windows Server domain corporate environment. The skills you will gain in this course include learning how to install and customize Windows 11 operating systems and apps and configure local and remote network connectivity and storage. You will also learn how to configure data security, device security, network security, and maintain, update, and recover Windows 11.
- Explain how to recover Windows 11 computers
- Manage Windows startup
- Configure the registry
- Describe devices and device drivers
- Recover files

Course Outlines:

Module 1: Installing Windows 11

This module describes the new features of Windows 11. The module also lists the hardware requirements for Windows 11 and describes the interactive installation process. The module then goes on to explain the various deployment options that could also be used in larger networks. The module also includes a review of the new user interface.

Lessons

- Introducing Windows 11
- Installing Windows 11
- Performing a Windows 11 installation
- Navigating the Windows 11 user interface

Module 2: Upgrading and updating Windows 11

This module describes the various upgrade and migration options available for installers. It also discusses how to migrate user state following an upgrade or migration. In the second half of the module, students learn how to manage Windows 11 updates.

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COURSE OUTLINE

Lessons

- Upgrading to Windows 11
- Migrating user state
- Managing Windows 11 updates

Module 3: Configuring Windows 11 devices

This module explains how to complete typical post-installation configuration options for Windows 11. Students also learn how to use both the Settings app and Control Panel to complete typical installation tasks.

Lessons

- Local configuration tools in Windows 11
- Using Windows Admin Center
- Using Windows PowerShell
- Implementing Remote Management

Module 4: Configuring network connectivity

This module provides guidance on configuring network settings, including how to set up and manage a VPN.

Lessons

- Configuring network connectivity
- Implementing name resolution
- Implementing remote access

Module 5: Managing storage

This module describes a typical disk configuration for a Windows 11 computer. The module then provides guidance on how to manage both local storage, and how to configure access to remote storage, such as OneDrive. Students also learn how to enable and configure Storage Spaces.

Lessons

- Overview of storage options
- Managing local storage
- Managing Storage Spaces

Module 6: Managing resources

This module provides an overview of supported file systems and explains use-case scenarios for each. Students then learn how to configure and manage access to shared files, how to implement file synchronization using Work Folders, and how to manage printer access.

Lessons

- Configuring and managing file access
- Configuring and managing shared folders
- Implementing Work Folders
- Managing printers

Module 7: Managing apps in Windows 11

This module describes how to deploy apps to Windows 11 devices. Students also learn how to troubleshoot apps. Finally, the module also discusses how to configure Microsoft Edge browser settings.

Lessons

- Deploying apps
- Managing access to the Microsoft Store
- Configuring Microsoft Edge

Module 8: Implementing and managing security

This module outlines common security threats and available mitigations. Students then learn to configure user and group accounts and User Account Control (UAC) settings. The module also discusses data security issues and then provides a description of available technologies that can help mitigate those threats, including Credential Guard, Exploit Guard, and BitLocker. Finally, the module explores ways that students can help secure network traffic.

Lessons

- Managing user and group accounts
- Configuring User Account Control
- Implementing BitLocker
- Implementing Windows 11 security features
- Securing against network threats

Module 9: Monitoring Windows 11

This module helps students identify performance-related problems with Windows 11 computers. Students also learn how to implement monitoring, including how to access and interpret event log data.

Lessons

- Monitoring Windows 11
- Optimizing Windows 11 performance

Module 10: Troubleshooting Windows 11

This module explores how to troubleshoot issues related to hardware devices and device drivers. It also covers how to recover Windows 11 computers that won't start or start with errors. Students also learn how to recover files.

Lessons

- Managing Windows 11 startup
- Recovering Windows 11
- Managing devices and drivers
- Understanding the registry
- Recovering files

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