

40 HORAS

INTRODUCTION

This five-day course is intended for IT professionals who deploy, manage, and maintain PCs, devices, and applications across medium-sized, large, or enterprise organizations. Typically, this audience comes from a desktop support background and progresses to the role of Enterprise Desktop Administrator. A significant portion of this audience uses or intends to use Microsoft System Center Configuration Manager (Configuration Manager) to manage and deploy PCs, devices, and enterprise applications. The Enterprise Desktop Administrator might also use toolsets such as the Windows Assessment and Deployment Kit (Windows ADK), and the Microsoft Deployment Toolkit (MDT) to support assessment, operating system, and application deployment tasks.

AUDIENCE

This five-day course is for IT professionals who deploy, manage, and maintain PCs, devices, and apps across medium, large, and enterprise organizations. Typically, this course's audience has a desktop-support background, and have worked as Enterprise Desktop Administrators. A significant portion of this audience uses or intends to use several tools, including the Windows Assessment and Deployment Kit (Windows ADK), System Center Configuration Manager, Microsoft Deployment Toolkit (MDT), and cloud-based services to support assessment, operating system, and application deployment tasks. Additionally, this course is for individuals who are interested in taking the MCSE exam 70-695: Deploying Windows Desktops and Enterprise Applications.

AT COURSE COMPLETION

After completing this course, students will be able to:

- Students will be able to assess the network environment to support operating system and application deployment tasks.
- Students will be able to identify the most appropriate Windows deployment strategy based upon organizational requirements.
- Students will be able to assess Windows 10 application compatibility issues and identify mitigation solutions.
- Students will be able to describe and configure strategies to migrate user state during operating system deployments.
- Students will be able to describe image management and use Windows ADK to prepare and support automated deployment strategies.

- Students will be able to identify solutions to support PXE-initiated and multicast solutions when performing operating system deployment tasks.
- Students will be able to configure an operating system deployment process using the Microsoft Deployment Toolkit.
- Students will be able to configure an operating system deployment strategy using System Center Configuration Manager.
- Students will be able to integrate the Microsoft Deployment Toolkit with Configuration Manager to support operating system deployment procedures.
- Students will be able to deploy Windows 10 using modern deployment techniques such as Windows Autopilot, Windows Configuration Designer, and Configuration Manager Servicing.
- Students will be able to implement volume license activation and configuration settings for client computers.
- Students will be able to customize and deploy Microsoft Office and configure access to Microsoft Store for Business apps.

PREREQUISITES

Before attending this course, students must have:

- System administrator-level working knowledge of: Networking fundamentals, including common networking protocols, topologies, hardware, media, routing, switching, and addressing.
- Microsoft Active Directory Domain Services (AD DS) principles and fundamentals of AD DS management.
- Installation, configuration, and troubleshooting for Windows-based personal computers.
- Basic concepts of Public Key Infrastructure (PKI) security.
- Basic understanding of scripting and Windows PowerShell syntax.
- Basic understanding of Windows Server roles and services.

COURSE OUTLINE

Module 1: Deploying Windows Desktops and Enterprise Applications

- Overview of the enterprise desktop life cycle
- Assessing readiness for a Windows desktop deployment
- Assessing deployment readiness by using MAP
- Assessing deployment readiness by using Windows Analytics

Module 2: Determining Windows Deployment Strategies

- Understanding tools and strategies used for operating system deployment
- Using the High Touch with Retail Media deployment strategy
- Using the High Touch with a Standard Image deployment strategy
- Using a lite or zero-touch deployment strategy
- Using modern and dynamic deployment strategies
- Alternative deployment strategies for Windows desktops

Module 3: Assessing Application Compatibility

- Diagnosing application compatibility issues
- Mitigating application compatibility issues
- Using ACT tools to address application compatibility issues

Module 4: Planning and Implementing User State Migration

- Overview of user state migration
- Overview of USMT 10.0
- Planning user state migration
- Migrating user state by using USMT

Module 5: Managing images and deployments using the Windows ADK

- Overview of image management
- Overview of the Windows Setup and installation process
- Preparing boot images by using Windows PE

Module 6: Supporting PXE-Initiated and Multicast Operating System Deployments

- Overview of PXE-initiated and multicast operating system deployments
- Installing and configuring Windows Deployment Services

Module 7: Operating System Deployment Using the Microsoft Deployment Toolkit

- Planning for the MDT environment
- Implementing MDT
- Integrating Windows Deployment Services with MDT

Module 8: Operating System Deployment Using System Center Configuration

- Overview of operating system deployment
- Preparing a site for operating system deployment
- Deploying an operating system

Module 9: Integrating MDT and Configuration Manager for Operating System Deployment

- Integrating deployment tools with Configuration Manager
- Integrating MDT with Configuration Manager

Module 10: Automating Windows Deployment using Modern Deployment Techniques

- Using Windows Autopilot to deploy Windows devices
- Using the Windows Configuration Designer to provision Windows devices
- Using Configuration Manager Servicing to Manage Windows 10

Module 11: Managing Volume License Activation and Additional Configuration Settings

- Solutions for volume license activation
- Determining additional client configuration settings