# (20416B)–Implementing Desktop Application Environments

## OBJECTIVE

In this three-day course, build the skills you need to design, deploy, and manage a physical and virtual Windows Server 2012 application management infrastructure, and focus on using Microsoft System Center 2012 Service Pack 1 (SP1). You will also learn to design, deploy, and manage Windows 8 Enterprise applications in a physical and virtual environment and in the cloud. This course is designed for experienced IT professionals who support medium to large enterprises, have previous experience working with operating systems running Windows Server, have their Windows 2012 Server certification (MCSA), and have taken course 20413: *Designing and Implementing a Server Infrastructure* or have equivalent skills.    Note: This course maps to the skills and knowledge measured by Microsoft Exam 70-416: Implementing Desktop Application Environments.

## COURSE TOPICS

**Module 1: Designing an Application Distribution Strategy**

- Developing an Application Lifecycle Strategy
- Determining Business Requirements for Application Distribution
- Overview of Application Distribution Strategies

**Module 2: Diagnosing and Remediating Application Compatibility**

- Diagnosing Application Compatibility Issues
- Evaluating and Implementing Remediation Solutions
- Resolving Compatibility Issues by Using ACT

**Module 3: Deploying Software by Using Group Policy and Windows Intune**

- Deploying Software by Using Group Policy
- Side loading Windows Store Apps
- Deploying Software by Using Windows Intune

**Module 4: Deploying Applications by Using Microsoft System Center 2012 Configuration Manager SP1**

- Understanding Software Deployment by Using System Center 2012 Configuration Manager SP1
- Deploying Software by Using System Center 2012 Configuration Manager SP1

**Module 5: Configuring Self-Service Application Deployment**

- Understanding Self-Service Application Deployment
- Configuring Self-Service with Windows Intune
- Self-Service Deployment by Using System Center 2012 Configuration Manager SP1
- Self-Service Deployment with Service Manager and Orchestrator

**Module 6: Designing and Implementing Presentation Virtualization Infrastructure**

- Assessing Presentation Virtualization Requirements

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- Planning Presentation Virtualization Infrastructure
- Deploying Presentation Virtualization Infrastructure
- Extending the Presentation Virtualization Infrastructure

**Module 7: Preparing, Configuring, and Deploying Presentation Virtualization Applications**

- Determining Presentation Virtualization Application Strategies
- Planning and Deploying Remote Desktop, RemoteApp, and Remote Desktop Web Access

**Module 8: Designing and Deploying an Application Virtualization Environment**

- Overview of Application Virtualization Models
- Deploying Application Virtualization Infrastructure Components
- Configuring Application Virtualization Client Support

**Module 9: Preparing, Sequencing, and Deploying Virtual Applications**

- Sequencing Applications with App-V
- Deploying App-V Applications

**Module 10: Planning and Implementing Application Updates and Security**

- Planning Application Updates
- Deploying Updates by Using WSUS
- Deploying Application Updates by Using System Center 2012 Configuration Manager SP1
- Implementing Application Security

**Module 11: Planning and Implementing Application Upgrades**

- Overview of Application Upgrades
- Overview of Application Concurrency

**Module 12: Monitoring Application Deployment, Use, and Performance**

- Planning Application Monitoring
- Planning Software Inventory and Metering
- Monitoring Application Resource Utilization

After completing this course, students will be able to:

- Design an application distribution strategy that is appropriate for an organizational environment.
- Diagnose and remediate application compatibility problems for desktop and presentation virtualization-based deployments.
- Use Group Policy and Windows Intune to deploy applications to client devices.
- Deploy applications centrally using System Center 2012 Configuration Manager SP1.
- Configure self-service application deployment using System Center 2012 Configuration Manager SP1, System Center 2012 Service Manager SP1, and Windows Store apps.
- Design and deploy Windows Server 2012 roles and features to support presentation virtualization.

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- Prepare, deploy and manage applications for Remote Desktop, RemoteApp, and Remote Desktop Web Access.
- Design and deploy Windows Server 2012 roles and features to support application virtualization.
- Virtualize and deploy applications by using App-V and System Center 2012 Configuration Manager SP1.
- Plan and configure the appropriate infrastructure to streamline the deployment of software updates to applications, and plan and configure application security.
- Plan and implement application upgrades, supersedence, and application coexistence.
- Monitor the deployment, performance, and utilization of applications and determine whether current application hosting platforms are meeting business needs.

## PREREQUISITES

This course requires that you meet the following prerequisites:

The attendee should have experience administering Windows Server in an environment that typically has the following characteristics:

- 2,500 to 50,000 or more users
- Multiple physical locations and multiple domain controllers
- Network services and resources such as messaging, databases, file and print, firewalls, Internet access, an intranet, and client computer management

The attendee should have:

- Experience supporting Windows 8 client desktops and deploying and managing applications, both physical and virtual.
- An MCSA and 20415B or equivalent knowledge.

In addition to their professional experience, students who attend this training should already have the following technical knowledge, and should:

- Have solid understanding of TCP/IP and networking concepts.
- Have a solid understanding of Windows and Active Directory Domain Services (AD DS), for example, domain user accounts, domain vs. local user accounts, user profiles, and group membership.
- Understand how to use scripts and batch files.
- Have solid understanding of security concepts such as authentication and authorization.
- Be able to perform a clean installation of Windows 8, upgrade to Windows 8, and migrate user-related data and settings from Windows XP.
- Be able to configure disks, partitions, volumes, and device drivers to enable Windows 8 to function as desired.
- Be able to configure and troubleshoot permissions and other settings to allow access to resources and applications on Windows 8 systems.
- Be able to configure settings to enable network connectivity.
- Be able to configure and troubleshoot a wireless network connection.
- Be able to configure and troubleshoot Windows 8 security.
- Be able to configure mobile computers and devices.

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- Understand the client administration capabilities of Windows Server and be familiar with management tools such as the Microsoft System Center suite of products.
- Understand the concepts of deployment, packaging, and imaging.
- Have a familiarity with SQL Server concepts.

Students who attend this training can meet the prerequisites by attending the following courses, or obtaining equivalent knowledge and skills:

- 20410B: Installing and Configuring Windows Server 2012
- 20411B: Administering Windows Server 2012
- 20412B: Configuring Advanced Windows Server 2012 services
- 20415B: Implementing a Desktop Infrastructure

## TRAINING APPROACH

This course includes lectures, course notes, exercises and hands-on practice.

## COURSE DURATION

24 Hours (in 3 days)

## CERTIFICATION COMPLETION

A certificate of completion is provided for all trainees attending the course