

Course Details

Course 20415A

Implementing a Desktop Infrastructure

Length: 5 Days

Published: September 21, 2012

Language(s): English

Audience(s): IT Professionals

Level: 300

Technology: Windows Server 2012

Type: Course

Delivery Method: Instructor-led (classroom)

Prerequisites

Before attending this course, students must have:

- Solid understanding of TCP/IP and networking concepts
- Solid knowledge of Windows and Active Directory Domain Services (AD DS)—for example, domain user accounts, domain vs. local user accounts, user profiles, and group membership
- Good understanding of scripts and batch files
- Solid understanding of security concepts such as authentication and authorization
- Familiarity with the client administration capabilities of Windows Server
- General knowledge of management tools such as System Center 2012 Configuration Manager, System Center 2012 Operations Manager, and System Center 2012 Data Protection Manager.
- Familiarity with imaging, packaging, and operating system deployment concepts
- Familiarity with certificates and Certification Authority (CA) implementation and configuration
- Knowledge equivalent to Windows 2012 MCSA
- 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
- Support for Windows 8 client desktops
- Deployment and management of both physical and virtual applications

Course Outline

Module 1: Assessing and Determining Desktop Deployment Options

- Overview of the Enterprise Desktop Life Cycle
- Assessing Hardware and Infrastructure Readiness for a Desktop Deployment
- Overview of Enterprise Desktop Deployment Methods
- Volume Activation Technologies for Enterprise Desktops

Module 2: Planning An Image Management Strategy

- Overview of Windows Image Formats
- Overview of Image Management

Module 3: Implementing Desktop Security

- Implementing a Centralized Desktop Security Solution
- Planning and Implementing BitLocker
- Planning and Implementing Encrypted File System

Module 4: Capturing and Managing a Desktop Operating System Image

- Overview of Windows ADK
- Managing the Windows Preinstallation Environment
- Building a Reference Image Using Windows SIM and Sysprep
- Capturing and Servicing a Reference Image
- Configuring and Managing Windows Deployment Services

Module 5: Planning and Implementing User State Migration

- Overview of User State Migration
- Planning User State Migration by Using USMT
- Migrating User State by Using USMT

Module 6: Planning and Deploying Desktops Using the Microsoft Deployment Toolkit

- Planning for the Lite Touch Installation Environment
- Implementing MDT 2012 for Lite Touch Installation
- Integrating Windows Deployment Services with MDT

Module 7: Planning and Deploying Desktops by Using System Center 2012 Configuration Manager

- Planning the Zero Touch Installation Environment
- Preparing the Site for Operating System Deployment
- Building a Reference Image Using a Configuration Manager Task Sequence
- Using MDT Task Sequences to Deploy Client Images

Module 8: Planning and Implementing a Remote Desktop Services Infrastructure

- Overview of Remote Desktop Services
- Planning the Remote Desktop Services Environment
- Configuring a Virtual Desktop Infrastructure Deployment
- Configuring a Session-Based Desktop Deployment
- Extending the Remote Desktop Services Environment to the Internet