

## Deploying Windows Vista®: Hands-On - 3 Days

### *Course 951 Overview*

#### **You Will Learn How To**

- Plan and deploy Windows Vista and Windows Server 2008 in the enterprise
- Develop customised Windows Imaging Format (WIM) files
- Manage licensing and continuous client reactivation
- Streamline migration and security updates to reduce implementation costs
- Automate deployments through Lite Touch Installations and Zero Touch Installations
- Maintain deployment images through offline editing

#### **Course Benefits**

An effective deployment strategy is essential to the successful integration of Windows Vista and Windows Server 2008 in your organisation. This course provides the knowledge and skills to plan, manage and optimise client and server deployments. You also learn to administer licensing and facilitate cost-effective migration and security updates.

#### **Who Should Attend**

This course is valuable for those responsible for deploying and managing Windows Vista and Windows Server 2008 in an enterprise environment. Course 950, "Windows Vista Comprehensive Introduction", Course 960, "Windows Server 2008 Comprehensive Introduction", or equivalent knowledge is assumed.

#### **Hands-On Training**

Throughout this course, extensive hands-on exercises provide you with practical experience deploying and managing Windows Vista. Exercises include:

- Building Windows PE boot media
- Creating answer files with SIM
- Capturing and applying images
- Deploying Windows Vista with ImageX
- Updating image files with drivers and security updates
- Adding applications and packages with Microsoft Deployment Toolkit
- Installing and configuring WDS
- Setting up a workstation with BitLocker drive encryption

## Deploying Windows Vista®: Hands-On - 3 Days

### Course 951 Outline

#### Planning a Windows Deployment

##### Investigating the new deployment technologies

- Initiating setup from Windows PE
- Applying images to install Windows

##### Developing a deployment strategy

- Evaluating Windows editions for business needs
- Automating installation for reliability and performance
- Contrasting thick, thin and hybrid images
- Optimising deployment with appropriate media

##### Selecting a distribution method

- DVD
- USB drive
- Network shares
- Storing images in Windows Imaging (WIM) format

#### Building Standardised Images

##### Creating the reference computer

- Setting up the Windows Automated Installation Kit (WAIK)
- Generating answer files with Windows System Image Manager (SIM)
- Adding applications to the OS
- Customising system settings

##### Exporting the master image

- Generalising the system with the System Preparation Tool (Sysprep)
- Customising Windows PE for imaging
- Constructing the Windows PE boot media
- Defining the file exclusion list
- Capturing the image for distribution

##### Deploying to target computers

- Preparing destination drives with DiskPart and automation utilities
- Applying images with ImageX

#### Licensing Activation and Management

##### Analysing licensing models

- Comparing licence types
- Reviewing Windows Genuine Advantage
- Troubleshooting activation issues
- Resolving Windows Activation Failures

##### Multiple Activation Keys (MAK)

- Identifying preferred MAK clients

- Applying MAK to numerous machines
- Leveraging the Volume Activation Management Tool

##### Key Management Service (KMS)

- Designing a KMS licence infrastructure
- Installing and configuring the KMS machine
- Periodic client reactivation requirements

##### Scripting Deployment Tasks

##### Migrating user environments to Windows Vista

- Contrasting user state migration options
- Copying data and settings with Windows Easy Transfer
- Relocating user environments with the User State Migration Tool (USMT)

##### Implementing BitLocker drive encryption

- Selecting appropriate key storage and recovery options
- Preparing systems with the Drive Preparation Tool
- Rolling out BitLocker

##### Configuring Windows Server 2008 features

- Enabling Windows Server roles
- Automating domain setup with automation scripts

##### Maintaining Images and Image Files

##### Preparing images for editing

- Mounting images in writable mode
- Applying and recapturing from alternate locations

##### Updating WIM file format images

- Adding and removing packages with the Package Manager (pkmgr)
- Injecting third-party drivers
- Editing the Windows file system and registry offline
- Applying hotfixes and updates to an image file

##### Optimising Deployments

##### Assembling custom WIMs

- Building Windows distribution shares
- Constructing deployment points
- Integrating software applications

##### Microsoft Deployment Toolkit

- Automating Lite Touch installations
- Preparing Zero Touch installations

##### Windows Deployment Services (WDS)

- Accessing Boot and Install images
- Combining WDS with Lite Touch installations