

# Configuring Windows Server 2008 Applications Platform

## Course Description

This 5-day, instructor-led course provides students with an understanding of migrating and deploying Windows Server 2008, including installation, configuration, and upgrading. Special emphasis is given to upgrading common server configurations and using the Windows Server Deployment Solution Accelerator.

The students will learn to install, configure, maintain, and troubleshoot an Internet Information Services (IIS) 7.0 Web Server in Windows Server 2008. This is the second course in the Windows Application Platform Services Technology Specialists Who Use Windows Server 2008 curriculum and will introduce the students to the Windows 2008 Terminal Services.

## Course Level

Intermediate—Advanced

## Pre-requisites

This course is intended for IT Professionals who are experienced with Windows 2000 Server and/or Windows Server 2003, who hold an MCSE or MCSA certification, or have equivalent knowledge.

## Who should attend?

- Before attending this course, students must have technical knowledge equivalent to the following course: Course ET 131, ET 132 and ET 133
- On-the-job experience in planning, implementing, managing, or supporting Windows Server 2000 or Windows Server 2003, including Active Directory and Network Infrastructure.
- Working knowledge of networking, for example, TCP/IP and Domain Name System (DNS).
- Experience with a Microsoft Windows Server 2003 Active Directory and Network Infrastructure.
- Experience with implementing security for a Microsoft Windows Server 2003 Network.
- Experience installing, configuring, and administering Microsoft Windows Server 2003, Windows XP, or Windows Vista.

## Course Durations

30 Hours

## Course Objectives

- Install Windows Server 2008.
- Install Windows Server 2008 Server Core.
- Configure Windows Server Core.
- Add and configure Windows Server Core roles.
- Add the Backup feature to Windows Server Core.
- Manage Windows Server Core.
- Create an answer file for use with Dcpromo.
- Create an Unattend file to automate RODC installation.
- Deploy a Read-Only Domain Controller (RODC) using an answer file.
- Install and configure Windows Deployment Services (WDS).
- Create operating system images in WDS.
- Add components like language packs to an image.
- Use an Unattend file with WDS.
- Configure custom computer naming for large scale WDS deployments.
- Deploy images with WDS.
- Install Microsoft Deployment Toolkit (MDT).
- Configure MDT.
- Create an MDT build.
- Create MDT deployment points.
- Perform a Lite Touch installation using MDT.
- Prepare a Windows Server 2003 forest for upgrade to Windows Server 2008.
- Prepare a Windows Server 2003 domain for upgrade to Windows Server 2008.
- Install a domain controller in an existing domain using the Windows interface.
- Install a domain controller in an existing domain using the Command Line.
- Describe considerations for upgrading file and print servers.
- Describe considerations for upgrading Web and application servers.
- Describe considerations for upgrading remote infrastructure servers.
- Install and configure the file and print server roles.
- Create and replicate a Distributed File System (DFS) namespace.
- Schedule a backup.
- Migrate a printer.
- Export an application and configuration from an IIS 6.0 server.
- Configure IIS 7.0 on Windows Server 2008
- Import a configuration onto Windows Server 2008
- Enable Remote Desktop and remote administration of Windows Firewall.
- Install and configure BitLocker Drive Encryption (BDE) and BDE Remote Admin Tool.
- Configure admin role separation on an RODC.
- Configure Distributed File System Replication (DFS-R).
- Migrate a Windows NT 4.0 server to a virtual machine

Register Now: 02-260-3233  
<http://www.ctt-center.com>



Certified Technical Training Center Co., Ltd.

## Course Outline

### Module 1: Managing Windows Server 2008

- Server Roles
- Windows Features
- Configuring and Managing Windows
- Control Panel
- Administrative Tools
- Server Manager
- Windows Reliability and Performance Monitor
- Initial Configuration Tasks
- Microsoft Remote Server Administration Tools (RSAT)
- Windows Server 2008 Administration Tools for Roles
- Windows Server 2008 Administration Tools for Features
- Server Core
- Shutting and Restarting Server Core
- Available Control Panel Applets
- Changing Computer Names and Joining Domains
- Configuring the Network Connection
- Running the Administrative Tools
- Other Useful Tools and Options

### Module 2: Windows Deployment and Activation

- Disk Cloning and the System Preparation Tool
- Deploying Windows with WIM Images
- Installing Windows Using Windows System Image Manager
- Windows Deployment Services
- Image Types
- Connecting to a WDS Server
- Installing Windows Deployment Services
- Configuring Windows Deployment Services
- Creating a Captured Image
- Multicast Support in WDS

### Module 3: Windows Server 2008 Storage

- IDE and SCSI Drives
- Redundant Arrays of Inexpensive Disks (RAID)
- Network-Attached Storage (NAS) and Storage Area Networks (SAN)
- Fibre Channel
- iSCSI
- Configuring the iSCSI Initiators
- Storage Explorer
- Storage Manager for SANs
- Disk Partitioning
- Disk Storage Management
- Basic Disks
- Dynamic Disks
- Managing Basic Disks and Dynamic Disks
- Moving Disks to Another Computer
- Basic Partitions
- Dynamic Volumes
- Simple Volumes
- Spanned Volumes
- Extending Simple or Spanned Volumes
- Striped Volumes
- Mirrored Volumes and RAID-5 Volumes
- Mount Points

### Module 4: Web Services Infrastructure and Security

- Web Pages
- IIS Manager 7.0
- Using the Configuration Store
- Using the Connections Pane and Toolbar
- Starting or Stopping the Web Server
- Creating Websites
- Adding a Virtual Directory
- Using Applications and Application Pools
- Recycling a Worker Process
- Configuring IIS 7.0 with IIS Manager
- Compression
- Default Documents and Directory Listings
- Configuring IIS Settings Using the appcmd Commands
- IIS Security
- URL Authorization Rules
- Authentication
- Secure Sockets Layer and Digital Certificates
- Machine Key
- Delegate Permissions
- Simple Mail Transfer Protocol (SMTP)
- Shared Configuration
- IIS 7.0 Backup
- File Transfer Protocol
- Logging

### Module 5: Microsoft Windows SharePoint Services

- Installing and Configuring WSS
- Planning SharePoint Services
- Installing SharePoint Services
- SharePoint Products and Technology Configuration Wizard
- SharePoint 3.0 Central Administration
- Operations Settings
- Application Management Settings
- Managing WSS Sites
- Users, Groups, and Permissions
- Recycle Bin
- Document Library
- Workflows

### Module 6: Windows Media Server

- Streaming Media
- Multiple Bit Rate Streaming (MBR)
- TCP Versus UDP
- Unicast Versus Multicast
- Data Transfer Protocols
- Installing Windows Media Services
- Implementing Content Streaming
- Content Streaming Features
- Implementing On-Demand Publishing
- Live Content Streaming
- Publishing Point Properties
- Announcement Files
- SMIL-Based Playlists
- Advertisements for Publishing Points
- Security in Windows Media Server

Register Now: 02-260-3233  
<http://www.ctt-center.com>

 certified

Certified Technical Training Center Co., Ltd.

## Course Outline

### Module 7: High Availability

- Hardware Redundancy
- Hot-Add and Hot-Replace Memory and Processors
- Failover Clustering
- Failover Clustering System Requirements
- Installing the Failover Clustering Feature
- Using the Cluster Validation Tests
- Creating the Cluster
- Configuring the Cluster
- Changing Active Nodes
- Cluster Network Role and Type
- Verifying that an IP Address Resource Can Come Online
- Cluster Resources
- Quorum Configuration
- Owners and Failback
- Network Load Balancing
- NLB Options
- Installing and Configuring NLB
- Stopping or Starting Handling Network Load Balancing Cluster Traffic

### Module 8: Terminal Services

- Remote Desktop
- Remote Desktop for Server Core
- Remote Desktop Connection
- Using the mstsc Command:
- The Remote Desktop Protocol File
- Using Group Policies with RDC
- Remote Desktops Snap-In
- Licensing
- License Management System
- License Server Discovery and User-Based License Tracking
- Migrating Licenses
- Troubleshooting License Issues
- Configuring and Managing Terminal Services
- Using Terminal Services Command-Line Tools
- Single Sign-On
- TS Remote Applications
- TS Web Access
- TS Gateway
- Installing TS Gateway
- Group Policy Settings for TS Gateway
- Load Balancing Terminal Servers
- Configuring Network Load Balancing with Terminal Servers
- Terminal Server Profiles
- Terminal Services Printing
- Managing Terminal Services by Using Windows System Resource Manager
- Creating Resource Allocation Policies
- Running Managing State or Profiling State

### Module 9: Virtual Machines

- Hyper-V Overview
- Hyper-V Features
- Supported Client Operating Systems
- Hyper-V Architecture
- Virtual Server File Structure
- Installing Hyper-V
- Managing Virtual Servers
- Using Vmconnect.exe to Connect to a Virtual Machine
- System Center Virtual Machine Manager
- Creating Virtual Machines
- Managing Virtual Machines
- Dynamically Expanded and Fixed Virtual Hard Disks
- Snapshots
- Differencing Disk
- Save States
- Managing Virtual Networks and Network Cards
- Virtual LAN Identification



**Register Now: 02-260-3233**  
<http://www.ctt-center.com>

 **certified**

Certified Technical Training Center Co., Ltd.