

## **Course 537:**

# **Windows 2008 and Windows 2008 R2 Foundations**

### **(5 days)**

#### **Course Description...**

Windows Server 2008 is Microsoft's next-generation server software. It replaces Windows 2003 and Windows 2000, and provides a robust and secure platform for server operation, web services and virtualization. With the October 2009 launch of Windows 2008 Release 2 (R2), Microsoft takes the server operating system to the next level. System Administrators and others around the globe are ready to take advantage of it and leverage a true 64-bit operating system.

In this intense, hands-on course, you'll learn the foundations of Windows Server 2008 from an expert instructor, and provided with real-world lecture and materials necessary to jump-start your experience with Windows 2008 and Windows 2008 R2. Starting with the installation of the operating system, server management and deployment of server roles, students will experience the fundamentals of Windows 2008 and Windows 2008 R2 management and operation.

#### **Who should attend...**

This course is recommended for any Information Technology (IT) professional who will be working with Windows 2008 and Windows 2008 R2 Servers. System Administrators, Server Managers, Networking Professionals, Technical Support Staff, Web Developers, Technology Managers, Windows Programmers and others will benefit from this course.

#### **Recommended Prerequisites...**

- Knowledge of Windows Server Administrator
- Basic understanding of Active Directory
- Working knowledge of TCP/IP

### **Course Outline...**

#### **Chapter 1: Windows Server 2008 and Windows Server 2008 R2**

Key Features of Windows Server 2008 and Windows Server 2008 R2  
Versions and Licensing  
32-bit and 64-bit computing  
New Server Installation  
Migration and Upgrade Paths  
Managing Server Roles



New and Enhanced Networking Features  
New Application Management and Deployment Technologies  
Server Management with Graphical Tools, Command Line  
PowerShell 2.0

## **Chapter 2: Windows Active Directory Configuration**

Active Directory Planning and Deployment  
Domain Name Services (DNS) usage with Active Directory  
Forests, Domains and Sites  
Account and Object Creation/Management  
Active Directory Replication  
Global Catalog, Read-Only Domain Controllers, and Operation Masters  
Group Policy Objects (GPO) Enhancements  
AD Lightweight Directory Services (AD-LDS) and Federated Services (AD-FS)  
Active Directory Monitoring, Backup and Restoration

## **Chapter 3: Network Infrastructure Configuration**

Windows Networking and Addressing – IPv4 and IPv6  
DNS and DHCP Management  
Network Access Protection and Network authentication  
Windows Firewall with Advanced Security  
iSCSI Connectivity and Enterprise Storage

## **Chapter 4: Windows File and Print Services**

File and Print Server Roles  
Distributed File System and DFS Replication  
Disk/Folder/File Management: Backup/Restore/Shadow copy/Quotas  
Monitoring and Managing Printers and Printer Deployment  
Windows System Update Services (WSUS) Server role and configuration  
Disk Management

## **Chapter 5: Application Infrastructures**

Windows Deployment Services  
Creating/Deploying Windows Deployment Services Images  
Windows Activation in the Enterprise: MAK, KMS and Volume License Data  
High Availability Windows Solutions  
Server Core Installations

## **Chapter 6: Internet Information Server 7.0**

IIS 7.0 and IIS 7.5 Deployment  
HTTP, HTTPS, FTP, and SMTP  
Web Security and Authentication in IIS  
Windows Media Server

## **Chapter 7: Hyper-V Server Virtualization and Terminal Services**

Windows Server Hyper-V Virtualization  
Enhancements to Hyper-V in Windows 2008 R2



System Center Virtual Machine Manager  
Terminal Services(2008)/Remote Desktop Services(2008 R2) Roles and Capabilities  
Deploying Applications into a Remote Desktop Services infrastructure  
Remote Desktop Services RemoteApp, Gateway and other advanced capabilities

***Additional/Custom Topics are available - please contact your ROI representative to discuss course tailoring!!!***