Course Syllabus

Planning and Administering Windows Server 2008 Servers

Introduction
This five-day instructor-led course provides students with the knowledge and skills to implement, monitor, and maintain Windows Server 2008 servers.

Audience
This course is intended for entry-level server administrators or information technology (IT) professionals
who are interested in becoming server administrators as the next step in their career path.

At Course Completion
After completing this course, students will be able to:
• Plan a Windows Server 2008 deployment
• Plan and implement server commissioning and decommissioning for Windows Server 2008
• Plan the installation of server roles for Windows Server 2008
• Create a configuration change plan for Windows Server 2008
• Plan and implement Windows Server 2008 Security
• Manage application versioning in Windows Server 2008
• Plan for a high-availability Windows Server 2008 deployment
• Plan a server update maintenance schedule for Windows Server 2008
• Maintain a Distributed File System (DFS) in Windows Server 2008
• Define server backup requirements and policies for Windows Server Backup
• Plan and implement a Windows Server 2008 restore
• Plan Windows Server 2008 monitoring
• Troubleshoot hardware issues
• Troubleshoot software issues
• Troubleshoot network issues

Prerequisites
Before attending this course, students must have up to one year experience with implementing server
plans although they have probably not yet had full responsibility for planning. This course requires that
students meet the following prerequisites:
• A strong familiarity with Windows deployment technologies and implementation
• A strong familiarity with Windows networking technologies and implementation
• A strong familiarity with Active Directory directory service technologies and implementation

Student Materials
The student kit includes a comprehensive workbook and other necessary materials for this class.

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Course Outline

Module 1: Planning for Windows Server 2008 Deployment
• Overview of Windows Server 2008 Deployment
• Identifying Windows Server 2008 Compatibility Issues
• Developing a Windows Server 2008 Deployment Plan

Module 2: Managing Server Migration
• Creating a Windows Server 2008 Deployment Plan
• Planning the Server Decommissioning Process
• Commissioning a Windows Server 2008 File Server

Module 3: Planning Windows Server 2008 Server Roles
• Planning for Windows Server 2008 Hardware
• Combining Windows Server 2008 Server Roles
• Planning for Windows Server 2008 File Servers
• Planning for Windows Server 2008 Server Core
• Planning for Windows Server 2008 Hyper-V

Module 4: Creating a Configuration Change Plan for Windows Server 2008
• Developing a Change Control Process
• Developing Configuration Changes
• Reviewing Configuration Changes

Module 5: Managing Windows Server 2008 Security
• Planning a Defense-in-Depth Strategy
• Implementing Host-Level Security for Windows Server 2008
• Implementing Network Security for Windows Server 2008

Module 6: Planning for the Application Server Role

• Determining Application Server Role Requirements
• Overview of the Application Server Role Components
• Supporting the .NET Framework

Module 7: Planning for Windows Server 2008 High Availability
• Planning for Network Load Balancing
• Overview of Failover Clustering in Windows Server 2008
• Creating Clusters in Windows Server 2008

Module 8: Maintaining Windows Server 2008 Servers
• Overview of Windows Server 2008 Management Tasks
• Planning for Security Update Management
• Automating Windows Server 2008 Maintenance
• Troubleshooting AD RMS

Module 9: Maintaining a Distributed File System on Windows Server 2008
• Planning Components Required for DFS
• Planning for High Availability in DFS
• Tools for Managing DFS

Module 10: Planning for Windows Server 2008 Backup
• Planning Backups with Windows Server 2008
• Planning Backup Policy on Windows Server 2008

Module 11: Managing Windows Server 2008 Restore
• Planning a Server Restore Policy
• Planning an EFS Restore Policy
• Verifying Restored Data

Module 12: Monitoring Windows Server 2008 Servers

• Planning Monitoring Tasks
• Calculating a Server Baseline
• Measuring Performance Objects
• Selecting Appropriate Monitoring Tools
• Planning Notification Methods

Module 13: Troubleshooting Windows Server 2008 Hardware
• Identifying Hardware Support Issues
• Handling Hardware Component Failures
• Handling Device Driver Failures

Module 14: Troubleshooting Software Problems
• Planning for Backup Continuity
• Reviewing Log Files
• Reviewing Core Operating System Components
• Evaluating Security Issues

Module 15: Troubleshooting Windows Server 2008 Networks
• Analyzing the Scale of Network Issues
• Correcting IP Connectivity Issues
• Resolving Names in Windows in Server 2008