



# COMPLETE COMPUTING, INC.

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## 50255DC: Managing Windows Environments with Group Policy

*Course length: 5 day(s)*

### Course Description

In course you will learn how to reduce costs and increase efficiencies in your network. You will discover how to consolidate the administration of an enterprise IT infrastructure with Group Policy, and you will learn to control and manage computer systems and domain users running Windows Server 2003, Server 2008 R2, XP, and Windows 7. Create Group Policies, implement administrative and security templates, and determine best practices when deploying software packages. Walk away with the experience and tools needed to optimize your enterprise systems and networks.

### Audience Profile

This course is intended for Enterprise network staff responsible for help desk support, system administration, and network design.

### Prerequisites

Experience with the Microsoft Windows Server 2008/2012 environments and a fundamental understanding of Active Directory and of TCP/IP and networking concepts.

### Performance-Based Objectives

Upon successful completion of this course, students will be able to:

- Design and deploy security policies for all your Windows servers, workstations, member servers, and Windows clients
- Delegate Administrative Control of Group Policies
- Backup and restore Group Policy Objects (GPOs) through Group Policy Management Console (GPMC)
- Easily roll out selected software updates and operating system patches from your network environment
- Tips for troubleshooting Group Policy



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## Course Content

### Module 1: Introducing Group Policy

This module describes the basis of what Group Policy is and how it functions.

- Configuration Management Overview
- Configuration Management Using Group Policy
- Group Policy Features Introduced with Later Versions of Windows
- Using Windows PowerShell in the Configuration Management Process

### Module 2: Using Group Policy Management Tools

This module describes the differences between local and domain policies and the Group Policy management tools you can use to manage these policies. This module also describes the Group Policy refresh process and how to manually force a refresh ahead of the default interval.

- Local and Domain Policies
- Using Group Policy Management Console
- Understanding Group Policy Refresh

### Module 3: Designing a Group Policy Infrastructure

This module details the steps a successful Group Policy deployment should follow, linking your design to how your company can best use the features. Essential network components and security design are also defined.

- Design Stages for a Group Policy Infrastructure
- Introducing the Design Stages for Implementing Group Policy
- Planning your Group Policy Design
- Designing Your Group Policy Solution
- Deploying Your Group Policy Solution
- Managing Your Group Policy Solution

### Module 4: Understanding the Architecture of Group Policy Processing

This module details the concepts that you must grasp in order to troubleshoot Group Policy. The module also describes the options that are available to change the standard Group Policy processing sequence.

- Group Policy Components in AD DS
- Understanding the Group Policy Deployment Order
- Modifying Group Policy Processing

### Module 5: Troubleshooting and Backing Up GPOs

This module explains how to use the RSoP tools to determine whether policies are being processed in the correct manner. This module discusses how to use the available tools to troubleshoot policy issues; back up, restore, import, copy, and search for GPOs; and migrate GPOs from one domain to another.

- Using Group Policy Troubleshooting Tools
- Integration of RSoP Functionality
- Using Logging Options
- Backing Up, Restoring, Importing, and Copying GPOs
- Building Migration Tables



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## **Module 6: Securing Windows Using Group Policy**

This module defines the Windows security model and describes the process of using Group Policy to implement user account, computer account, and domain security.

- Exploring the Windows Security Architecture
- Securing User Accounts
- Exploring Security Policies
- Windows Firewall with Advanced Security
- Implementing Domain Security

## **Module 7: Implementing Application Security Using Group Policy**

This module describes the process of securing applications in a Windows environment. It also explains how to implement UAC (User Account Control) to help prevent users from running unauthorized software, reducing the likelihood that viruses, Trojan horses, or spyware might intrude upon the environment.

- Managing UAC Settings
- Defending Against Malware
- Using AppLocker to Restrict Software
- Implementing Windows 8 App Security Settings

## **Module 8: Configuring the Desktop Environment with Group Policy**

This module explains many of the settings that are available to configure and restrict the user desktop environment, such as Control Panel restrictions, Start Menu settings, and Windows Explorer configuration.

- Exploring Script Types and Controlling Script Execution
- Defining the Desktop, Start Menu, and Taskbar Settings
- Defining the Control Panel Settings
- Defining the Windows Components Settings
- Configuring the Printer Management and Pruning Settings
- Defining the Network Settings
- New Settings for Windows 8 Client and Windows Server 2012

## **Module 9: Implementing User State Virtualization**

This module explains how to use roaming profiles and Folder Redirection to maintain the user's personal files and settings.

- Configuring Folder Redirection
- Managing Offline Files
- Implementing User Experience Virtualization
- OneDrive for Business

## **Module 10: Assigning and Publishing Software Packages**

This module explains how to use Group Policy for deploying software.

- Using MSI Packages to Distribute Software
- Using Group Policy as a Software Deployment Method
- Deploying Software
- Setting Up Distribution Points
- Using the Systems Center Configuration Manager to Distribute Software



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## **Module 11: Configuration Management with Windows PowerShell**

This module explains how to navigate and use basic Windows PowerShell commands and how to use Windows PowerShell to manage Group Policy. It also explains how you can use PowerShell logon scripts with Group Policy.

- Using Windows PowerShell
- Writing PowerShell Scripts
- Windows PowerShell Library for Group Policy
- Windows PowerShell-Based Logon Scripts
- Using PowerShell Desired State Configuration

## **Module 12: Creating and Deploying Administrative Templates**

This module explains the logic behind administrative templates, when to use them, and the basics of how to write them. This module also explains how to deploy templates by loading legacy ADM templates into the Group Policy Management Editor, and copying ADMX templates to the Central Store.

- Introducing ADM Templates
- Legacy ADM Templates
- Custom ADM Templates
- Using the New ADMX Templates
- Converting and Creating Custom ADMX Templates
- Using the ADMX Central Store

## **Module 13: Configuring Group Policy Preferences**

This module describes the function of Group Policy Preferences. You will learn how to combine Preferences with Policies, and how Preferences are different from Policies.

- Introducing Group Policy Preferences
- Comparing Preferences and Policy Settings
- Configuring Preferences Settings