

# 20411 Administering Windows Server 2012

## **Duration:**

Traditional Instructor Led Learning - 5.00 Day(s)

Online Live - 5.00 Sessions

## **Overview:**

Students will learn the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security.

## **Who Should Attend:**

This course is intended for Information Technology (IT) Professionals with hands on experience working in a Windows Server 2008 or Windows Server 2012 environment, who wish to acquire the skills and knowledge necessary to be able to manage and maintain the core infrastructure required for a Windows Server 2012 environment. The key focus for students in this course is to broaden the initial deployment of Windows Server 2012 services and infrastructure and provide the skills necessary to manage and maintain a domain based Windows Server 2012 environment, such as user and group management, network access and data security.

## **At Course Completion:**

After completing this course, students will be able to:

- Implement a Group Policy infrastructure.
- Manage user desktops with Group Policy.
- Manage user and service accounts.
- Maintain Active Directory Domain Services (AD DS).
- Configure and troubleshoot Domain Name System (DNS).
- Configure and troubleshoot Remote Access.
- Install, configure, and troubleshoot the Network Policy Server (NPS) role.
- Implement Network Access Protection (NAP).
- Optimize file services.
- Configure encryption and advanced auditing.
- Deploy and maintain server images.
- Implement Update Management.
- Monitor Windows Server 2012.

## **Prerequisite Comments:**

Before attending this course, students must have: - At least one year of experience working with Windows Server 2008, Windows Server 2008 R2 or Windows Server 2012. - Good knowledge and understanding of Active Directory and networking infrastructure. - Knowledge equivalent to that already covered in “20410A:Installing and Configuring Windows Server 2012”.

**Outline:**

**Lesson 1: Implementing a Group Policy Infrastructure**

- Understanding Group Policy
- Implementing GPOs
- Managing Group Policy Scope
- Group Policy Processing
- Troubleshooting Policy Application
- Lab : Implementing a Group Policy Infrastructure

**Lesson 2: Managing User Desktops with Group Policy**

- Implementing Administrative Templates
- Configuring Group Policy Preferences
- Managing Software with GPSI
- Lab : Managing User Desktops with Group Policy

**Lesson 3: Managing User and Service Accounts**

- Creating and Administering User Accounts
- Configuring User Object Attributes
- Automating User Account Creation
- Configuring Managed Service Accounts
- Lab : Managing User and Service Accounts

**Lesson 4: Maintaining Active Directory Domain Services**

- Implementing Virtualized Domain Controllers
- Implementing Read Only Domain Controllers
- Administering AD DS
- Managing the AD DS Database
- Lab : Maintaining Active Directory Domain Services

**Lesson 5: Configuring and Troubleshooting DNS**

- Installing the DNS Server Role
- Configuring the DNS Server Role
- Configuring DNS Zones
- Configuring DNS Zone Transfers
- Managing and Troubleshooting DNS
- Lab : Configuring and Troubleshooting DNS

**Lesson 6: Configuring and Troubleshooting Remote Access**

- Configuring Network Access
- Configuring VPN Access
- Overview of Network Policies
- Troubleshooting Routing and Remote Access
- Configuring DirectAccess
- Lab : Configuring and Troubleshooting Remote Access

**Lesson 7: Installing, Configuring, and Troubleshooting the Network Policy Server**

## Role

Installing and Configuring a Network Policy Server  
Configuring RADIUS Clients and Servers  
NPS Authentication Methods  
Monitoring and Troubleshooting a Network Policy Server  
Lab : Installing and Configuring a Network Policy Server

### **Lesson 8: Implementing Network Access Protection**

Overview of Network Access Protection  
How NAP Works  
Configuring NAP  
Monitoring and Troubleshooting NAP  
Lab : Implementing Network Access Protection

### **Lesson 9: Optimizing File Services**

Overview of FSRM  
Using FSRM to Manage Quotas, File Screens, and Storage Reports  
Implementing Classification Management and File Management Tasks  
DFS Overview  
Configuring DFS Namespaces  
Configuring and Troubleshooting DFS Replication  
Lab : Lab A: Configuring Quotas and File Screening Using FSRM  
Lab : Lab B: Configuring DFS Namespaces and Replication

### **Lesson 10: Configuring Encryption and Advanced Auditing**

Encrypting Network Files with EFS  
Configuring Advanced Auditing  
Lab : Lab A: Encrypting and Recovering Files  
Lab : Lab B: Implementing Advanced Audit Policy Configuration

### **Lesson 11: Deploying and Maintaining Server Images**

Overview of WDS  
Implementing Deployment with WDS  
Administering WDS  
Lab : Deploying and Maintaining Server Images Using Windows Deployment Services

### **Lesson 12: Implementing Update Management**

Overview of WSUS  
Deploying Updates with WSUS  
Lab : Implementing Update Management

### **Lesson 13: Monitoring Windows Server 2012**

Monitoring Tools  
Using Performance Monitor  
Monitoring Event Logs



1855 Lakeland Drive  
Suite R-101  
Jackson, MS 39216  
Tele: 601-914-4500  
Fax: 601-914-4503  
[www.systemsit-ms.com](http://www.systemsit-ms.com)

Lab : Monitoring Windows Server 2012

**Systems IT**  
1855 Lakeland Dr.  
Suite R-101  
Jackson, MS 39216

**Tony Scott**  
Work: 601-914-5026  
[tony@systemsit-ms.com](mailto:tony@systemsit-ms.com)

