

# Windows Server Fundamentals

Lesson 00:

# Document History

Date	Course Version No.	Software Version No.	Developer / SME	Reviewer(s)	Approver	Change Record Remarks
16-March-2015	1.0	2008	Nilofar	Rajdeep Miraskar	Mahima Sharma	Revamped to CU standards
July 2016	1.1	2008	Amal Thambi	Rajdeep Miraskar	Mahima Sharma	Customized as per the requirements of SAP Basis

# Course Goals

- Describe fundamental network components and terminology thus enabling you to select an appropriate network component in a particular scenario.
- Implement a network by selecting network hardware components and technologies and determine the appropriate network hardware and wiring components for a situation.
- Describe the protocols and services within the Transmission Control Protocol (TCP/IP) suite of protocols and implement IPv4 within a Windows environment.
- Select appropriate storage technologies and configure storage on Windows Server.
- Perform a local media-based installation of Windows Server 2008 R2.
- Describe server roles.
- Implement and configure an Active Directory® Domain Service (AD DS) forest.
- Describe the concept of defense-in-depth and determine how to implement this approach with Windows Server.
- Identify the security features in Windows Server that help to provide defense-in-depth.
- Identify the network-related security features in Windows Server to mitigate security threats to your network.
- Identify and implement additional software components to enhance your organization's security.
- Monitor a server to determine the performance level.
- Identify the Windows Server tools available to maintain and troubleshoot Windows Server.



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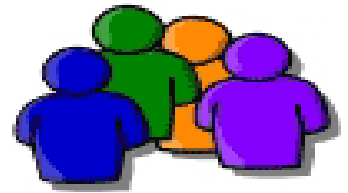
# Pre-requisites

This course requires that you meet the following prerequisites:

- A good fundamental knowledge of general computing equivalent with the CompTIA A+ Certification.
- An ability to understand basic security, networking and administration concepts.
- Some previous knowledge and experience with desktop operating systems, although this is not mandatory.
- No programming skills are required, although some experience and knowledge of scripting technologies would be advantageous.

# Intended Audience

Candidates for this course are seeking to gain fundamental knowledge and skills around security, networking, and administration in Windows Server 2008 R2. It can apply to home computer users, academic, information workers, developers, or help desk technicians wishing to begin a new skills path or up-skill to Windows Server technologies. It is for candidates wishing to prepare for the Microsoft® Technology Associate (MTA) certification in Windows Server 2008. Candidates for this course may also include IT Pros with skills within other IT areas or operating systems (such as Linux) who wish to gain an insight into Windows Server.



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# Day Wise Schedule

## Day 1

Lesson 1 Implementing Active Directory Domain Services

Lesson 2 Managing Users

## Day 2

Lesson 3 Managing Users

Lesson 4 Monitoring Server Performance

# Table of Contents

## Implementing Active Directory Domain Services

- What Is a Domain?
- AD DS Trees
- The AD DS Forest
- Organizational Units
- Why Use Organizational Units?
- What Is a Domain Controller?
- AD DS Sites
- AD DS Replication

# Table of Contents

## Managing Users

- Name and Account Attributes
- User Account Management
- Configure User Object Attributes
- View and Modify All Attributes
- Create Users with Templates
- Create and Configure Managed Service Accounts
- What Is a Managed Service Account
- Administering Managed Service Accounts

## Managing Groups

- Default Built-In Groups
- Group Scope
- Group Management Strategy
- Default Groups
- Special Identities
- Best Practices for Group Management



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## Monitoring Server Performance

- Server Components
- Performance Bottlenecks
- The Process of Performance Monitoring

# References

## Books:

Windows Server 2008: The Complete Reference (Excerpt)

- By Danielle Ruest and Nelson Ruest

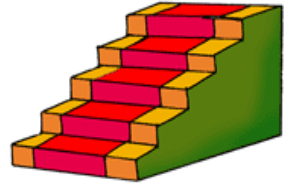


MCITP: 5-in-1 Study System, Windows Server 2008  
Enterprise Administrator

Websites: <http://technet.microsoft.com>

# Next Step Courses

Windows server 2012 Administration  
Configuring Advance services in Win 2012



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# Other Parallel Technology Areas

Red Hat Linux Server