

# دوره MCA: Windows Server 2012

**Microsoft**  
**CERTIFIED**  
Solutions Associate  

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Windows Server 2012

## خلاصه دوره:

دوره MCA 2012 که شامل ۳ کتاب 70-410، 70-411 و 70-412 می باشد مناسب برای مدیران شبکه در حوزه مدیریت سیستم عامل می باشد. دانشجویان گرامی پس از پایان این دوره قادر خواهند بود مدیریت سیستم عامل را در شبکه سازمان و یا شرکت انجام دهند. از جمله این موارد می توان مدیریت Domain، Update، نصب و نگهداری سیستم عامل، مدیریت محیط مجازی مبتنی بر Hyper-V شرکت مایکروسافت، مدیریت DHCP برای تخصیص IP به دستگاهها، مدیریت سرویس DNS و بطور کلی تمامی مدیریت ها مربوط به ویندوز اشاره نمود. لازم به توضیح می باشد پس از پایان این دوره دانشجویان عزیز می توانند به عنوان مدیر شبکه شروع بکار نمایند.

## تفاوت MCA و MCSE:

حال ممکن است این سوال مطرح باشد که تفاوت این ۲ دوره چه می باشد؟

برای دریافت MCSE باید دو کتاب ۷۰-۴۱۳ و ۷۰-۴۱۴ را نیز با موفقیت سپری نمود. مباحث این دو کتاب در حوزه طراحی سرویس ها می باشد که در ایران کاربرد کمتری دارد و همچنین در این کتاب ها در مورد System Center ها نیز توضیح مختصری داده شده است تا دانشجویان بتوانند در صورت علاقه برای دوره های System Center نیز ثبت نام نمایند. در واقع با سپری نمودن MCA می توان تمامی مدیریت های ویندوز را در یک شبکه انجام داد و لزومی به خواندن دوره MCSE نمی باشد ولی دوستانی که می خواهند طراحی انجام دهند و یا با System Center ها کار کنند می توانند دوره MCSE را انتخاب کنند.

## سرفصل های دوره MCA:

### Course 20410D: Installing and Configuring Windows Server® 2012

Module 1: Deploying and Managing Windows Server 2012



This module introduces students to the editions of Windows Server 2012 and the new Windows Server 2012 management tools. It also covers how to install Windows Server 2012, how to perform post-deployment tasks, and how to perform basic administrative tasks.

Lessons

- Windows Server 2012 Overview
- Installing Windows Server 2012
- Post-Installation Configuration of Windows Server 2012
- Overview of Windows Server 2012 Management
- Introduction to Windows PowerShell

Lab : Deploying and Managing Windows Server 2012

After completing this module, students will be able to:

- Describe Windows Server 2012.
- Install Windows Server 2012.
- Perform post-installation configuration of Windows Server 2012.
- Describe the management tools available in Windows Server 2012.
- Perform basic administrative tasks using Windows PowerShell.

### **Module 2: Introduction to Active Directory Domain Services**

This module covers the structure of Active Directory Domain Services (AD DS) and its various components, such as forest, domain, and organizational units (OUs). It also gives an overview of domain controllers, in addition to choices that are available with Windows Server 2012 for installing AD DS on a server.

Lessons

- Overview of AD DS
- Overview of Domain Controllers
- Installing a Domain Controller

Lab : Installing Domain Controllers

After completing this module, students will be able to:

- Describe the structure of AD DS.
- Describe the purpose of domain controllers.
- Install a domain controller.

### **Module 3: Managing Active Directory Domain Services Objects**

This module describes how to manage user accounts and computer accounts, including how to manage various consumer devices that employees use. The module also covers how to manage an enterprise network by managing groups, and how to delegate administrative tasks to designated users or groups.

Lessons



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- Managing User Accounts
- Managing Groups
- Managing Computer Accounts
- Delegating Administration

Lab : Managing Active Directory Domain Services Objects

After completing this module, students will be able to:

- Manage user accounts with graphical tools.
- Manage group accounts with graphical tools.
- Manage computer accounts.
- Delegate permissions to perform AD DS administration.

#### **Module 4: Automating Active Directory Domain Services Administration**

This module describes how to use command-line tools and Windows PowerShell to automate AD DS administration. It discusses various command-line tools and Windows PowerShell commands, and then describes how to use these tools and commands to modify objects individually and in bulk operations.

Lessons

- Using Command-line Tools for AD DS Administration
- Using Windows PowerShell for AD DS Administration
- Performing Bulk Operations with Windows PowerShell

Lab : Automating AD DS Administration by Using Windows PowerShell

After completing this module, students will be able to:

- Use command-line tools for AD DS administration.
- Use Windows PowerShell cmdlets for AD DS administration.
- Perform bulk operations by using Windows PowerShell.

#### **Module 5: Implementing IPv4**

This module discusses using IPv4, which is the network protocol used on the Internet and on local area networks. In this module, students learn how to implement an IPv4 addressing scheme and how to troubleshoot network communication. This module also covers how to determine and troubleshoot network-related problems.

Lessons

- Overview of TCP/IP
- Understanding IPv4 Addressing
- Subnetting and Supernetting
- Configuring and Troubleshooting IPv4

Lab : Implementing IPv4

After completing this module, students will be able to:



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- Describe the TCP/IP protocol suite.
- Describe IPv4 addressing.
- Determine a subnet mask necessary for supernetting or subnetting.
- Configure IPv4 and troubleshoot IPv4 communication.

## Module 6: Implementing Dynamic Host Configuration Protocol

This module covers supporting and troubleshooting a Windows Server–based network infrastructure by deploying, configuring, and troubleshooting the Dynamic Host Configuration Protocol (DHCP) server role.

Lessons

- Overview of the DHCP Server Role
- Configuring DHCP Scopes
- Managing a DHCP Database
- Securing and Monitoring DHCP

Lab : Implementing DHCP

After completing this module, students will be able to:

- Explain the DHCP server role.
- Configure DHCP scopes.
- Manage a DHCP database.
  
- Secure and monitor the DHCP server role.

## Module 7: Implementing DNS

This module describes name resolution for Windows operating system clients and Windows Server servers. It also covers installing and configuring a DNS Server service and its components.

Lessons

- Name Resolution for Windows Clients and Servers
- Installing a DNS Server
- Managing DNS Zones

Lab : Implementing DNS

After completing this module, students will be able to:

- Describe name resolution for Windows operating system clients and Windows Server servers.
- Install and manage a DNS Server.
- Manage DNS zones.

## Module 8: Implementing IPv6

This module discusses the features and benefits of IPv6, how IPv6 affects IPv4 networks, and how to integrate IPv6 into IPv4 networks by using various transition technologies.

Lessons



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- Overview of IPv6
- IPv6 Addressing
- Coexistence with IPv4
- IPv6 Transition Technologies

Lab : Implementing IPv6

After completing this module, students will be able to:

- Describe the features and benefits of IPv6.
- Describe IPv6 addressing.
- Describe IPv6 coexistence with IPv4.
- Describe IPv6 transition technologies.

### **Module 9: Implementing Local Storage**

This module introduces several different storage technologies. It discusses how to implement the storage solutions in Windows Server 2012, and how to use the new Storage Spaces feature, which enables you to combine disks into pools that you can configure for automatic management.

Lessons

- Overview of Storage
- Managing Disks and Volumes
- Implementing Storage Spaces

Lab : Implementing Local Storage

After completing this module, students will be able to:

- Describe various storage technologies.
- Explain how to manage disks and volumes.
- Explain how to implement Storage Spaces.

### **Module 10: Implementing File and Print Services**

This module discusses how to provide file and print resources with Windows Server 2012. It describes how to secure files and folders, how to protect previous versions of files and folders by using shadow copies, and how to give workers remote access to corporate files by implementing the new Work Folders role service. It also describes new network printing features that help manage the network printing environment.

Lessons

- Securing Files and Folders
- Protecting Shared Files and Folders by Using Shadow Copies
- Configuring Work Folders
- Configuring Network Printing

Lab : Implementing File and Print Services



After completing this module, students will be able to:

- Secure shared files and folders.
- Protect shared files and folders by using shadow copies.
- Configure the Work Folders role service.
- Configure network printing.

### **Module 11: Implementing Group Policy**

This module provides an overview of Group Policy and provides details about how to implement Group Policy.

Lessons

- Overview of Group Policy
- Group Policy Processing
- Implementing a Central Store for Administrative Templates

Lab : Implementing Group Policy

After completing this module, students will be able to:

- Create and manage Group Policy Objects (GPOs).
- Describe Group Policy processing.
- Implement a Central Store for Administrative Templates.

### **Module 12: Securing Windows Servers Using Group Policy Objects**

This module describes Windows Server 2012 operating system security. It covers how to identify security threats, plan your strategy to mitigate security threats, and secure your Windows Server 2012 infrastructure.

Lessons

- Security Overview for Windows Operating Systems
- Configuring Security Settings
- Restricting Software
- Configuring Windows Firewall with Advanced Security

Lab : Increasing Security for Server ResourcesLab : Configuring AppLocker and Windows Firewall

After completing this module, students will be able to:

- Describe WindowsServer operating system security.
- Configure security settings by using Group Policy.
- Increase security for server resources.
- Restrict unauthorized software from running on servers and clients.
- Configure Windows Firewall with Advanced Security.

### **Module 13: Implementing Server Virtualization with Hyper-V**

This module describes virtualization technologies available on Windows, specifically focusing on the Hyper-V role in Windows Server 2012 and Windows Server 2012 R2. It covers the



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components of the Hyper-V role, configuring and deploying the role, in addition to and how to configure and manage key components of a Hyper-V implementation, such as Storage and Networking.

Lessons

- Overview of Virtualization Technologies
- Implementing Hyper-V
- Managing Virtual Machine Storage
- Managing Virtual Networks

Lab : Implementing Server Virtualization with Hyper-V

After completing this module, students will be able to:

- Describe virtualization technologies.
- Implement Hyper-V.
- Manage virtual machine storage.
- Manage virtual networks.

## Course 20411D: Administering Windows Server® 2012

### Module 1: Configuring and Troubleshooting Domain Name System

This module explains how to configure and troubleshoot DNS, including DNS replication and caching.

Lessons

- onfiguring the DNS Server Role
- Configuring DNS Zones
- Configuring DNS Zone Transfers
- Managing and Troubleshooting DNS

Lab : Configuring and Troubleshooting DNS

After completing this module, students will be able to:

- Install and configure the DNS server role.
- Create and configure DNS zones.
- Configure DNS zone transfers.
- Manage and troubleshoot DNS.

### Module 2: Maintaining Active Directory Domain Services



This module explains how to implement virtualized domain controllers and read-only domain controller (RODCs). It also explains how to perform common AD DS administrative tasks and manage the AD DS Database.

Lessons

- Overview of AD DS
- Implementing Virtualized Domain Controllers
- Implementing RODCs
- Administering AD DS
- Managing the AD DS Database

Lab : Maintaining AD DS

After completing this module, students will be able to:

- Implement virtualized domain controllers.
- Implement RODCs.
- Administer AD DS.
- Manage the AD DS database

### **Module 3: Managing User and Service Accounts**

This module explains how to create, configure and automate the creation of user accounts. It also explains how to configure account-related properties of user objects. It further explains how to create and administer Managed Service Accounts.

Lessons

- Configuring Password Policy and User Account Lockout Settings
- Configuring Managed Service Accounts

Lab : Managing User and Service Accounts

After completing this module, students will be able to:

- Configure password policy and user account lockout settings.
- Configure managed service accounts.

### **Module 4: Implementing a Group Policy Infrastructure**

This module explains how to implement a GPO infrastructure. This also teaches how to perform common GPO management tasks, and manage GPOs by using Windows PowerShell. It also focuses on troubleshooting the application of GPOs.

Lessons

- Introducing Group Policy





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- Implementing and Administering GPOs
- Group Policy Scope and Group Policy Processing
- Troubleshooting the Application of GPOs

Lab : Implementing a Group Policy Infrastructure

After completing this module, students will be able to:

- Explain what Group Policy is.
- Implement and administer Group Policy Objects (GPOs).
- Manage Group Policy scope and Group Policy processing.
- Troubleshoot the application of GPOs.

### **Module 5: Managing User Desktops with Group Policy**

This module explains how you can use Group Policy Objects (GPOs) to implement desktop environments across your organization by using Administrative Templates, Folder Redirection, Group Policy preferences, and where applicable, use software deployment to install and update application programs. It is important to know how to use these various GPO features so that you can configure your users' computer settings properly.

Lessons

- Implementing Administrative Templates
- Configuring Folder Redirection and Scripts
- Configuring Group Policy Preferences
- Managing Software with Group Policy

Lab : Managing User Desktops with Group Policy

After completing this module, students will be able to:

- Configure folder redirection and scripts by using GPOs.
- Describe and implement Administrative Templates.
- Configure GPO preferences.
- Deploy software by using GPOs.

### **Module 6: Installing, Configuring, and Troubleshooting the Network Policy Server Role**

This module explains how to install and configure NPS, RADIUS Clients and servers. It also describes NPS authentication methods. It describe NPS authentication methods and how to monitor and troubleshoot NPS.

Lessons

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



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Lab : Installing and Configuring a Network Policy Server  
After completing this module, students will be able to:

- Install and configure a Network Policy Server (NPS).
- Configure clients and servers with the Remote Authentication Dial-In User Service (RADIUS) protocol.
- Explain NPS authentication methods.
- Monitor and troubleshoot NPS.

### **Module 7: Implementing Network Access Protection**

This module explains how to configure, monitor, and troubleshoot NAP. It also explains how NAP can help to protect your network and the various NAP enforcement processes.

Lessons

- Overview of Network Access Protection
- Overview of NAP Enforcement Processes
- Configuring NAP
- Configuring IPSec Enforcement for NAP
- Monitoring and Troubleshooting NAP

Lab : Implementing Network Access Protection

After completing this module, students will be able to:

- Describe how NAP can help to protect your network.
- Describe the various NAP enforcement processes.
- Configure NAP.
  
- Monitor and troubleshoot NAP.

### **Module 8: Implementing Remote Access**

In this module, you will learn how to implement and manage remote access in Windows Server 2012. You will also learn how to implement DirectAccess by using the Getting Started wizard, implement and manage an advanced DirectAccess infrastructure, and implement VPN.

Lessons

- Overview of Remote Access
- Implementing DirectAccess by Using the Getting Started Wizard
- Implementing and Managing an Advanced DirectAccess Infrastructure
- Implementing VPN
- Implementing Web Application Proxy

Lab : Implementing DirectAccess by Using the Getting Started Wizard  
Lab : Deploying an Advanced DirectAccess Solution  
Lab : Implementing VPN  
Lab : Implementing Web Application Proxy



After completing this module, students will be able to:

- Install and manage the Remote Access role in Windows Server 2012 operating system.
- Implement DirectAccess by using the Getting Started Wizard.
- Implement and manage an advanced DirectAccess Infrastructure.
- Implement VPN access.
- Implement Web Application Proxy.

### **Module 9: Optimizing File Services**

This module describes FSRM, configure quotas, file screening, and storage reports and implement classification management and file management tasks. It describes the components of the DFS. I also explains how to configure DFS namespaces and DFS replication.

Lessons

- Overview of FSRM
- Using FSRM to Manage Quotas, File Screens, and Storage Reports
- Implementing Classification and File Management Tasks
- Overview of DFS
- Configuring DFS Namespaces
- Configuring and Troubleshooting DFS Replication

Lab : Configuring Quotas and File Screening Using File Server Resource Manager  
Lab : Implementing Distributed File System

After completing this module, students will be able to:

- Describe the File Server Resource Manager (FSRM) in the Windows Server 2012 operating system.
- Use FSRM to manage quotas, file screens, and storage reports.
- Implement classification and file management tasks.
- Describe Distributed File System (DFS).
- Configure DFS namespaces.
- Configure and troubleshoot DFS Replication.

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

This module explains how to encrypt files using EFS and configure advanced auditing features.

Lessons

- Encrypting Drives by Using BitLocker
- Encrypting Files by Using EFS
- Configuring Advanced Auditing

Lab : Configuring Encryption and Advanced Auditing

After completing this module, students will be able to:



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- Secure data by using BitLocker Drive Encryption.
- Encrypt files by using Encrypting File System (EFS).
- Configure advanced auditing.

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

This module explains how to create and manage server images by using Windows Deployment Services

Lessons

- Overview of Windows Deployment Services
- Managing Images
- Implementing Deployment with Windows Deployment Services
- Administering Windows Deployment Services

Lab : Using Windows Deployment Services to Deploy Windows Server 2012

After completing this module, students will be able to:

- Describe the important features and functionality of Windows Deployment Services (Windows DS).
- Manage images by using Windows Assessment and Deployment Kit (Windows ADK) Tools.
- Configure Windows Deployment Services in Windows Server 2012.
- Perform deployments with Windows Deployment Services.

### **Module 12: Implementing Update Management**

This module explains how to use Windows Server Update Services (WSUS) to deploy updates to Windows servers and clients.

Lessons

- Overview of WSUS
- Deploying Updates with WSUS

Lab : Implementing Update Management

After completing this module, students will be able to:

- Describe the role of WSUS.
- Describe the WSUS update management process.
- Deploy updates with WSUS.

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

This module explains the monitoring tools available in Windows Server 2012. It also explains how to use Performance Monitor and monitor events.



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## Lessons

- Monitoring Tools
- Using Performance Monitor
- Monitoring Event Logs

Lab : Monitoring Windows Server 2012

After completing this module, students will be able to:

- Describe the monitoring tools for the Windows Server 2012 operating system.
- Use Performance Monitor to view and analyze performance statistics of programs that are running on their servers.
- Monitor event logs to view and interpret the recorded events.

## **Course 20412D: Configuring Advanced Windows Server® 2012 Services**

### **Module 1: Implementing Advanced Network Services**

In this module students will be able to configure advanced features for Dynamic Host Configuration Protocol (DHCP) and Domain Name System (DNS), and configure IP Address Management (IPAM).

## Lessons

- Configuring Advanced DHCP Features
- Configuring Advanced DNS Settings
- Implementing IPAM
- Managing IP Address Spaces with IPAM

Lab : Implementing Advanced Network Services

After completing this module, students will be able to:

- Configure advanced features in DHCP with Windows Server 2012.
- Configure the advanced DNS settings in Windows Server 2012.
- Implement IP Address Management in Windows Server 2012.

### **Module 2: Implementing Advanced File Services**

In this module students will be able to configure file services to meet advanced business requirements.

## Lessons



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- Configuring iSCSI Storage
- Configuring BranchCache
- Optimizing Storage Usage

Lab : Implementing Advanced File Services  
Lab : Implementing BranchCache  
After completing this module, students will be able to:

- Learn how to configure and manage iSCSI.
- Implement BranchCache using Windows Server 2012.
- Implement Windows Server 2012 features that optimize storage utilization.

### **Module 3: Implementing Dynamic Access Control**

In this module students will be able to configure Dynamic Access Control (DAC) to manage and audit access to shared files.

Lessons

- Overview of DAC
- Implementing DAC Components
- Implementing DAC for Access Control
- Implementing Access Denied Assistance
- Implementing and Managing Work Folders

Lab : Implementing Secure Data Access

After completing this module, students will be able to:

- Describe DAC.
- Implement and configure components of DAC.
- Implement DAC on file servers.
- Describe and implement access- denied assistance.
- Implement the integration of Work Folders with DAC.

### **Module 4: Implementing Distributed Active Directory Domain Services Deployments**

In this module students will be able to plan and implement an Active Directory Domain Services (AD DS) deployment that includes multiple domains and forests.

Lessons

- Overview of Distributed AD DS Deployments
- Deploying a Distributed AD DS Environment
- Configuring AD DS Trusts



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Lab : Implementing Distributed AD DS Deployments

After completing this module, students will be able to:

- Describe the components of a highly complex AD DS deployment.
- Implement a complex AD DS deployment.
- Configure AD DS trusts.

### **Module 5: Implementing Active Directory Domain Services Sites and Replication**

In this module students will be able to plan and implement an AD DS deployment that includes multiple locations.

Lessons

- AD DS Replication Overview
- Configuring AD DS Sites
- Configuring and Monitoring AD DS Replication

Lab : Implementing AD DS Sites and Replication

After completing this module, students will be able to:

- Describe how replication works in a Windows Server 2012 AD DS environment.
- Configure AD DS sites in order to optimize AD DS network traffic.
- Configure and monitor AD DS replication.

### **Module 6: Implementing AD CS**

In this module students will be able to implement an Active Directory Certificate Services (AD CS) deployment.

Lessons

- Using Certificates in a Business Environment
- PKI Overview
- Deploying CAs
- Deploying and Managing Certificate Templates
- Implementing Certificate Distribution and Revocation
- Managing Certificate Recovery

Lab : Deploying and Configuring CA HierarchyLab : Deploying and Managing Certificates

After completing this module, students will be able to:

- Describe and use certificates in business environments.



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- Describe the Public Key Infrastructure (PKI) components and concepts, and describe the options for implementing a certification authority infrastructure.
- Plan and implement an AD CS certification authority infrastructure.
- Plan and implement a certificate template deployment using an AD CS certification authority.
- Plan and implement certificate distribution and revocation.
- Configure and manage key archival and recovery.

### **Module 7: Implementing Active Directory Rights Management Services**

In this module students will be able to implement an AD RMS deployment.

Lessons

- AD RMS Overview
- Deploying and Managing an AD RMS Infrastructure
- Configuring AD RMS Content Protection
- Configuring External Access to AD RMS

Lab : Implementing AD RMS

After completing this module, students will be able to:

- Describe what AD RMS is, and how it can be used to achieve content protection.
- Deploy and manage an AD RMS infrastructure.
- Configure content protection using AD RMS.
- Enable users outside the organization to access content protected by using AD RMS.

### **Module 8: Implementing and Administering AD FS**

In this module students will be able to implement an Active Directory Federation Services (AD FS) deployment.

Lessons

- Overview of AD FS
- Deploying AD FS
- Implementing AD FS for a Single Organization
- Deploying AD FS in a Business-to-Business Federation Scenario
- Extending AD FS to External Clients

Lab : Implementing AD FS Lab : Implementing AD FS for External Partners and Users

After completing this module, students will be able to:





- Describe the identity federation business scenarios and how AD FS can be used to address the scenarios.
- Configure the AD FS prerequisites and deploy the AD FS services.
- Implement AD FS to enable SSO in a single organization.
- Implement AD FS to enable SSO between federated partners.
- Implement the Web Application Proxy and describe WorkPlace Join integration with AD FS.

### **Module 9: Implementing Network Load Balancing**

In this module students will be able to provide high availability and load balancing for web-based applications by implementing Network Load Balancing (NLB).

Lessons

- Overview of NLB
- Configuring an NLB Cluster
- Planning an NLB Implementation

Lab : Implementing NLB

After completing this module, students will be able to:

- Describe how NLB works.
- Configure an NLB cluster.
- Plan an NLB implementation.

### **Module 10: Implementing Failover Clustering**

In this module students will be able to provide high availability for network services and applications by implementing failover clustering.

Lessons

- Overview of Failover Clustering
- Implementing a Failover Cluster
- Configuring Highly Available Applications and Services on a Failover Cluster
- Maintaining a Failover Cluster
- Implementing a Multi-Site Failover Cluster

Lab : Implementing Failover Clustering

After completing this module, students will be able to:

- Explain failover clustering features in Windows Server 2012.
- Describe how to implement a failover cluster.



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- Explain how to configure highly available applications and services on a failover cluster.
- Explain how to maintain a failover cluster and how to use new maintenance features.
- Describe how to implement multi-site failover cluster.

### **Module 11: Implementing Failover Clustering with Hyper-V**

In this module students will be able to deploy and manage Hyper-V virtual machines in a failover cluster.

Lessons

- Overview of Integrating Hyper-V with Failover Clustering
- Implementing Hyper-V Virtual Machines on Failover Clusters
- Implementing Hyper-V Virtual Machine Movement

Lab : Implementing Failover Clustering with Hyper-V

After completing this module, students will be able to:

- Explain options for making virtual machines highly available.
- Describe how to implement virtual machines in a failover cluster deployed on a host.
- Explain options for moving a virtual machine or its storage.
- Explain a high level overview of Microsoft System Center 2012- Virtual Machine Manager (VMM) 2012.

### **Module 12: Implementing Business Continuity and Disaster Recovery**

In this module students will be able to implement a backup and disaster recovery solution based on business and technical requirements

Lessons

- Data Protection Overview
- Implementing Windows Server Backup
- Implementing Server and Data Recovery

Lab : Implementing Windows Server Backup and Restore

After completing this module, students will be able to:

- Describe the considerations that must be included when you are implementing a disaster recovery solution.
- Plan and implement a backup solution for Windows Server 2012.
- Plan and implement server and data recovery.