

## SEVENMENTOR TRAINING PVT.LTD

### MCSA Server 2016 Syllabus

#### What do we cover in MCSA course ?

Are you interested in learning about the Information Technology or computer career field? If so, then this course is for you. This course is designed to give you a solid foundation with Windows Server 2016 which is the latest Windows Server operating system available (released Oct 2016).

The Microsoft Certified Solutions Associate (MCSA): Windows Server 2016 is an intermediate level certification that covers skills required to manage Windows Server 2016 Operating System, Client-Server Model, Network Infrastructure, Virtualization, Domain Management, Security Implementation, etc.

Of course MCSA Server 2016 have huge changes, number of exams still remains 3. The following exams are required to get Certified on MCSA Server 2016

[70-740: Installation, Storage, and Compute with Windows Server 2016](#)

[70-741: Networking with Windows Server 2016](#)

[70-742: Identity with Windows Server 2016](#)

#### Installation, Storage, and Compute with Windows Server 2016

##### Exam : 70-740

##### Description

Welcome to this course. This Course focuses primarily on the installation, storage, and compute features and functionality available in Windows Server 2016. It covers general installation tasks and considerations, and the installation and configuration of Nano Server, in addition to the creation and management of images for deployment. It also covers local and server storage solutions, including the configuration of disks and volumes, Data Deduplication, High Availability, Disaster Recovery, Storage Spaces Direct, and Failover Clustering solutions.

##### Who is the target audience?

- Computer System Administrator, Network Administrator, Computer Support Specialist
- Technical Support, 2nd or 3rd line Support, Service Analyst
- Anyone who has desire to Learn Windows Server 2016

##### Requirements

- A basic understanding of networking fundamentals
- Desire to Learn

##### Syllabus

##### Install Windows Servers in Host and Compute Environments (10-15%)

Office 21-25/A, First Floor Shreenath Plaza,  
Dnyaneshwar Paduka Chowk, Pune, Maharashtra 411005

Mob : +91-7798058777

## SEVENMENTOR TRAINING PVT.LTD

Introduction to Microsoft Server Operating Systems.  
Comparing Server 2012 to Server 2016  
Understanding Licensing of Server 2016  
Install, Upgrade, and Migrate Servers and workload  
Install and configure Nano Server

### **Implement Storage Solutions (10-15%)**

Configure disks and volumes  
Implement server storage

### **Implement Hyper-V (20-25%)**

Install and configure Hyper-V  
Configure virtual machine (VM) settings  
Configure Hyper-V storage  
Configure Hyper-V networking

### **Implement Windows Containers (5-10%)**

Deploy Windows containers  
Manage Windows containers

### **Implement High Availability (30-35%)**

Implement high availability and disaster recovery options in Hyper-V  
Implement failover clustering  
Implement Storage Spaces Direct  
Manage failover clustering  
Manage VM movement in clustered nodes  
Implement Network Load Balancing (NLB)

### **Maintain and Monitor Server Environments (10-15%)**

Maintain server installations  
Monitor server installations

## Networking with Windows Server 2016

### Exam : 70-741

#### Description

Welcome to this course: Microsoft Windows Server 2016 Certification (70-741). In this course, you'll learn how to handle the essential administrative tasks in Windows Server 2016. Windows Server 2016 is the server operating system developed by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. Windows Server 2016 DevOps is the solution to these challenges as it helps organizations to respond faster in order to handle the competitive pressures by replacing error-prone manual tasks using automation. Microsoft has gotten us thinking outside of the box for what it means to be a system administration, and comes with some interesting new capabilities. These are exciting times to be or to become a server administrator!

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### After this course, you'll gain:

- Network Knowledge
  - Pass the Microsoft 70-741 exam
  - Learn how to configure and use IPv4 and IPv6
  - Learn how to deploy DHCP and enable DHCP high availability
  - Learn how to configure and install DNS
  - Learn how to manage IP services with IP address management
- At the end of this course, you will know how to take your Windows Server 2016-powered Server and turn it into any common infrastructure role that might be required in your company. So what are you waiting for? Let's get started!

### Who is the target audience?

- Web developers
- Programmers
- Anyone who wants to learn Windows Server 2016
- Anyone who wants to get an IT Job

### Syllabus

#### Implement Domain Name System (DNS) (15-20%)

Install and configure DNS servers  
Forward Lookup Zone and Reverse Lookup Zone  
Primary, Secondary and Stub Zone  
Forwarders and Conditional Forwarders  
Zone Transfer and DNSSEC  
DNS Resource Records (RR), including A, AAAA, PTR, SOA, NS, SRV, CNAME, and MX records  
Root Hints and Dynamic DNS

#### Implement Networking with DHCP and IPAM (25-30%)

Introduction to IPv4 and IPv6 Address Space  
Install and configure DHCP  
Manage and maintain DHCP  
IPv4 and IPv6 Scope  
Lease, Reservation and Scope options  
Implement and Maintain IP Address Management (IPAM)

#### Implement Network Connectivity and Remote Access Solutions (20-25%)

Implement network connectivity solutions with NAT  
Implement virtual private network (VPN) and DirectAccess solutions  
Implement Network Policy Server (NPS)

#### Implement Core and Distributed Network Solutions (15-20%)

Implement IPv4 and IPv6 addressing  
Tunneling and Routing

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Implement Distributed File System (DFS)

DFS Name Space and Replication

Implement Branch Cache

**Implement an Advanced Network Infrastructure (15-20%)**

Implement high performance network solutions

NIC Teaming

Determine scenarios and requirements for implementing Software Defined Networking (SDN)

### Identity with Windows Server 2016

**Exam : 70-742**

#### Description

Identity in Windows Server 2016 is the 3rd course towards the MCSA 2016 certification. This course covers Active Directory Domain services the primary identity management platform for Windows Networks. Learn how to deploy domain controllers, manage various Active Directory objects, secure your network and manage it centrally using Group Policy. You will also learn how to connect your internal Active Directory to cloud based solutions such as Office 365 and Azure AD along with the establishment of complex AD DS internal infrastructures.

Install and Configure Domain Controllers. Manage Active Directory Objects Users, Groups, Computers, and Organizational Units. Design and Manage complex infrastructures. Secure Active Directory Domain Services. Implementing and Troubleshooting Group Policy. Monitoring and Recovering Active Directory. Implementing Active Directory Certificate Services. Implement AD Federated Services. Implement Active Directory Rights Management Services

Those seeking advanced training in Windows Server 2016 and pursuing the MCSA or MCSE IT certifications. The 70-742 is a must have certification covering various topics in Windows Server 2016 for the MCSA certification.

#### Syllabus

##### **Installing and Configuring Domain Controllers (5-10%)**

Introduction to Active Directory Domain Services

Overview of Identity Management Concepts

Active Directory Domain Services Components

Overview of ADDS Domain Services

Deploying Domain Controllers

##### **Managing AD DS Objects (5-10%)**

Overview of Object Management

Managing User Accounts

Managing Groups

Managing Computer Accounts

Managing Organizational Units

##### **Securing Active Directory Domain Services (5-10%)**

Managing Organizational Units

Implementing Account Security

Auditing AD DS

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Configuring Managed Service Accounts

### **Working with Complex AD Infrastructures (15-20%)**

Overview of Advanced AD DS Deployments

Deploying a Distributed AD DS Environment

Overview of AD DS Replication

Configuring AD DS Services

### **Implementing Group Policy (15-20%)**

Overview of Group Policy

Creating and Configuring GPOs

Monitoring and Troubleshooting Group Policy

Managing Security Options for Computers using Group Policy

Managing User Environments

### **Understanding Microsoft Azure AD and Directory Synchronization (10-15%)**

Planning Directory Synchronization

Implementing Azure AD Connect

Managing Identities with Directory Synchronization

### **Monitoring and Recovering AD DS (10-15%)**

Monitoring AD DS

Database Management

Backup and Recovery in AD DS

### **Implementing Active Directory Certificate Services (15-20%)**

Overview of Public Key Infrastructure and AD CS

Deploying Certificate Authority Hierarchy

Administering Certificate Authorities

Deploying and Managing Certificates

Managing Revocation and Distribution

Configuring Certificate Recovery

### **Implementing Active Directory Federation Services (5-10%)**

Overview of AD FS

Planning and Deploying AD FS

Overview of Web Application Proxy

### **Module 10: Implementing Active Directory Rights Management Services (5-10%)**

Overview of AD RMS

Deploying AD RMS

Protecting with AD RMS

Conclusion

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