

MICROSOFT CERTIFIED SOLUTIONS EXPERT (MCSE)

COURSE DURATION -30 HOURS

FEE-3500 AED

What is MCSE?

The MCSE Certification is a certification to become a system engineer. They are a series of exams that test a person's knowledge with various Microsoft technologies like Windows Server, SQL Server, Exchange Server, SharePoint, System Center (SCCM) and Office 365.

WHY SHOULD YOU HAVE MCSE CERTIFICATION?

The MCSE certification skills help you to determine the business necessity and chart it out. Further, it helps you to troubleshoot network issues, and install and configure various network constitute.

Contents in Detail

SERVER

- 1. WINDOWS SERVER**
- 2. EXCHANGE SERVER**
- 3. VIRTUALISATION**

1. WINDOWS SERVER

A. IT INFRASTRUCTURE-

- I. Windows Server Administration Fundamentals
- II. Networking Fundamentals
- III. Security Fundamental

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B. WINDOWS SERVER 2016

- I. Installation, Storage, and Compute with Windows Server 2016
- II. Networking with Windows Server 2016
- III. Identity with Windows Server 2016

C. WINDOWS SERVER 2012

- I. Installing and Configuring Windows Server 2012
- II. Administering Windows Server 2012
- III. Configuring Advanced Windows Server 2012 Services

D. SERVER INFRASTRUCTURE

- I. Designing and Implementing a Server Infrastructure
- II. Implementing an Advanced Server Infrastructure

2. EXCHANGE SERVER

Messaging

- Core Solutions of Microsoft Exchange Server 2013
- Advanced Solutions of Microsoft Exchange Server 2013

3. VIRTUALIZATION

1. SERVER VIRTUALISATION

Server Virtualization with Windows Server Hyper-V and System Center

WINDOWS CERTIFICATION

1. IT INFRASTRUCTURE

Windows Operating System Fundamentals

2. WINDOWS 10

- Configuring Windows 8.1
- Supporting Windows 8.1
- Installing and Configuring Windows 10
- Deploying and Managing Windows 10 Using Enterprise Services

3. WINDOWS 7

- Installing and Configuring Windows 7 Client
- Troubleshooting and Supporting Windows 7 in the Enterprise
- Planning and Managing Windows 7 Desktop Deployments and Environments

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4. ENTERPRISE DEVICE AND APPS

- Deploying Windows Desktops and Enterprise Applications
- Administering System Center Configuration Manager and Intune

APPLICATIONS

1. OFFICE 365

Enabling and Managing Office 365

Course content

1. Planning and provisioning Office 365
2. Managing Office 365 users and groups
3. Configuring client connectivity to Microsoft Office 365
4. Planning and configuring directory synchronization
5. Planning and configuring Exchange Online services
6. Planning and deploying Skype for Business Online and Microsoft Teams
7. Planning and configuring SharePoint Online
8. Planning and configuring an Office 365 collaboration solution
9. Planning and configuring security and compliance in Office 365
10. Monitoring and troubleshooting Microsoft Office 365
11. Planning and configuring identify federation

DATABASE

SQL SERVER

1. DATABASE: Fundamentals
2. MCSA (1) SQL 2016 DATABASE DEVELOPMENT
 - Querying Data with Transit-SQL
 - Developing SQL Databases
- (2) SQL 2016 DATABASE ADMINISTRATION
 - Administering a SQL Database Infrastructure
 - Provisioning SQL Databases
- (3) SQL 2016 BUSINESS INTELLIGENCE DEVELOPMENT
 - Implementing a SQL Data Warehouse
 - Developing SQL Data Models
- (4) SQL SERVER 2012/2014

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- Querying Microsoft SQL Server
- Administering Microsoft SQL Server Databases
- Implementing a Data Warehouse with Microsoft SQL Server

DEVELOPER

1. Visual studio
2. Microsoft azure

1. VISUAL STUDIO

Developer

- Software Development Fundamentals
- HTML5 App Development Fundamentals

Windows store app using HTML5

- HTML5 App Development Fundamentals
- Essentials of Developing Windows Store Apps Using HTML5 and JavaScript
- Advanced Windows Store App Development Using HTML5 and JavaScript

Windows store app development using HTML5 and JAVASCRIPT

- Programming in C#
- Essentials of Developing Windows Store Apps Using C#
- Advanced Windows Store App Development Using C#

Web Applications

- Programming in HTML5 with JavaScript and CSS3
- Programming in C#
- Developing ASP.NET MVC 4 Web Applications
- Developing Microsoft Azure and Web Services

Contents

- Installing windows server 2012.
- Disk Management – MBR, GPT, VHD, Basic disk, Dynamic disk, storage pool, disk pool.
- NTFS file system and its features – file permissions, quota, VSS, offline files.

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- Hyper-V – Creating and configuring virtual machines.
- Hyper-V – Creating and configuring virtual machine storage.
- Hyper-V – Creating and configuring virtual networks.
- DHCP – Deployment and configuration.
- DNS – Forward and reverse lookup, primary/secondary/stub zone, forwarders, root hints, caching.
- Only DNS, Dynamic DNS.
- Installing Active Directory domain controllers.
- Active Directory user, group, OU management.
- Create and manage Group Policy objects (GPOs).
- Configure security policies.
- Configure application restriction policies.
- Configure Windows Firewall.
- Deploy and manage Windows Deployment Services (WDS).
- Configure Distributed File system (DFS).
- Configure File Server Resource Manager (FSRM).
- Configure routings.
- Configure NAT.
- Configure VPN.
- FSMO roles.
- Active Directory backup and restoration.
- Active directory task delegation.
- Configure Network Load Balancing (NLB).
- Configure failover clustering.
- Manage Virtual Machine (VM) migration.
- Plan and implement failover clustering.
- Plan and implement highly available storage solution.
- Plan and implement virtualization hosts.
- Plan and implement virtualization guests.



MICROSOFT AZURE

COUSRE DURATION- 30 HOURS

FEE- 3500 AED

WHAT IS MICROSOFT AZURE?

Microsoft Azure (formerly Windows Azure) is a cloud computing service created by Microsoft for building, testing, deploying, and managing applications and services through Microsoft-managed data centers. It provides software as a service (SaaS), platform as a service (PaaS) and infrastructure as a service (IaaS) and supports many different programming languages, tools and frameworks, including both Microsoft-specific and third-party software and systems.

It's the freedom to build, manage, and deploy applications on a massive, global network using your favorite tools and frameworks.

WHAT YOU NEED TO KNOW ABOUT AZURE?

We talk about Microsoft Azure all of the time. There's so many different aspects of Azure that we can never quite say everything that we need to. One of the fundamental aspects of Azure is how it can change how you manage your IT infrastructure.

Microsoft Azure provides Infrastructure as a Service. Basically, this means that you access and manage your infrastructure through the Cloud. You no longer have to make investments in buying and managing physical servers. You don't have to pay for heating, cooling or power either!

Simply, you're renting your hardware from Microsoft and then accessing it through the Internet without the expense you would have had previously with physical servers. A lot of people

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question the security of the Cloud. There's really no need. What you have to remember is that the hardware still exists it's just not your problem anymore.

When you have a physical server on-premises it is actually more vulnerable. It is only as secure as what you do to make it secure. Locking your doors, turning on your alarm and installing CCTV is the protection that you are giving your IT infrastructure. At Microsoft's datacentres your infrastructure will be subject to a number of different controls with heavy security measures. The Microsoft Datacenter in Ireland has 16 £1 million caterpillar generators just in case there is an issue. Chris Roche, our Managing Director, and Urfaan Azhar, our Infrastructure Manager, visited the Datacenter earlier in the year and they said that Mission Impossible would not be able to access it, it's that secure!

The issue with IT is that there is often a lot of a waste. For example, you could invest a significant amount in a Network Attached Storage Device for your Disaster Recovery option and then it may never be used. With Microsoft Azure this wouldn't happen, you would pay for what you needed when you needed it without having to make that significant investment.

Microsoft Azure is a cost-effective and secure alternative to on-premises infrastructure. If you are considering migrating your infrastructure to Microsoft Azure talk to ACUTECH today.

Storage in Microsoft Azure

One of the primary uses that we have seen organizations use Microsoft Azure for is storage. Instead of having to budget capital expenditure for hardware and then pay for heating, power and cooling you can instead use Azure for your storage solutions. You would only need to pay for what you need, removing redundancy costs. Azure can be used for your file storage or your disk storage for your virtual machines. A great way we have seen the storage solutions used in Azure is through its back up and disaster recovery option. Instead of having to invest in extra storage hardware just in case something goes wrong with your server, you can restore your data in the Cloud until a new server arrives.

Web and Mobile Apps in Microsoft Azure

Microsoft Azure enables applications to be easily created, tested and deployed in the Cloud. A variety of different programming languages can be used including .NET, Python, Java and PHP. Developers have the ability to access a range of pre-built APIs making it easy to connect to Cloud services like Office 365 and Salesforce.

Data and Analytics in Microsoft Azure

When it comes to data and analytics there are lots of ways that your business can gain intelligence. With Machine Learning, you can easily build and deploy predictive analytics solutions. With Azure's analytics tools you can process data quickly and on demand without needing to worry about managing infrastructure.

Internet of Things in Microsoft Azure

The Internet of Things is growing and growing. Fridges are starting to replenish themselves and switching a light of has never been more easy. In Azure you can use the IoT hub to connect and manage millions of different devices. You will be able to access real time data and establish reliable communication between devices.

While we have decided to focus on just 4 areas of Microsoft Azure to give you a taste of what is available, there is so much more to it. There's AI and Cognitive Services, Networking, Security and Identity tools and so much more.

HOW DOES AZURE COMPARE TO OTHER CLOUD?

Azure is the only consistent hybrid cloud, has more regions than any cloud provider, delivers unparalleled developer productivity, and offers more comprehensive compliance coverage—including meeting the requirements of the General Data Protection Regulation (GDPR).

Will Azure work for my industry?

Azure provides solutions for all industries. Bring together cloud services and products tailored for your industry to help meet your specific needs and drive innovation.

Architecting Microsoft Azure Solutions

1. Design Compute Infrastructure

- Design solutions using virtual machines- Design VM deployments by leveraging availability sets, fault domains, and update domains in Azure; Design VM Scale Sets; design for compute-intensive tasks using Azure Batch; define a migration strategy from cloud services; recommend use of Azure Backup and Azure Site Recovery

2. Design Data Implementation

- Design for Azure Storage solutions-Determine when to use Azure Blob Storage, blob tiers, Azure Files, disks, and Store Simple
 - A. Design for relational database storage- Determine when to use Azure SQL Database and SQL Server Stretch Database; design for scalability and features; determine when to use Azure Database for MySQL and Azure Database for PostgreSQL; design for HA/DR, design a backup and recovery strategy

3. Design Networking Implementation

- a. Design Azure virtual networks- Design solutions that use Azure networking services: design for load balancing using Azure Load Balancer and Azure Traffic Manager; define DNS, DHCP, and IP strategies; determine when to use Azure Application Gateway; determine when to use multi-node application gateways, Traffic Manager and load balancers
- b. Design external connectivity for Azure Virtual Networks- Determine when to use Azure VPN, Express Route and Virtual Network Peering architecture and design; determine when to use User Defined Routes (UDRs); determine when to use VPN gateway site-to-site failover for Express Route

4. Design Security and Identity Solutions

- Secure resources by using identity providers- Design solutions that use external or consumer identity providers such as Microsoft account, determine when to use Azure AD B2C and Azure AD B2B; design mobile apps using AAD B2C or AAD B2B

5. Design for Operations

- Design an operations automation strategy- Determine when to use Azure Automation, PowerShell, Desired State Configuration (DSC), Azure

Logic Apps; define a strategy for auto-scaling; define a strategy for enabling periodic processes and tasks

Azure Developer | Developing Solutions for Microsoft Azure

Develop Azure Infrastructure as a Service compute solution
Develop Azure Platform as a Service compute solution
Develop for Azure storage
Implement Azure security
Implement Azure security
Connect to and consume Azure services and third-party services

Microsoft Azure Administrator

Microsoft Azure Administrator

Azure Solutions Architect | Microsoft Azure Architect Technologies

Deploying and Configuring Infrastructure
Implementing Workloads and Security
Understanding Cloud Architect Technology Solutions
Creating and Deploying Apps
Developing for the Cloud

Azure Solutions Architect | Microsoft Azure Architect Technologies

Deploying and Configuring Infrastructure
Implementing Workloads and Security
Understanding Cloud Architect Technology Solutions
Creating and Deploying Apps

Microsoft Azure Fundamentals

Microsoft Azure Solutions with Microsoft Visual Studio

Developing Microsoft Azure and Web Services

Introduction to Microsoft Azure for IT Professionals

What we have?

- All trainers are certified – Practical oriented approach
- Live/ Real-time server administration training
- 24/7 phone support for technical issues resolution
- Flexible timings – Each candidate get personalized training
- Gets hand on experience in server side issue resolution
- Chance to visit live data centers
- Special training materials with screen shots, easy to learn
- 100 % pass assured exam assistance.