

## Microsoft Certified Solutions Associate (MCSA)

### Who can do?

- Fresh University Graduates and like to pursue a career in Server Administration.
- Already working and interested to switch over to field in Server Administration
- Already working in a Server Administration position and like to excel in terms of better position and compensation.
- Already working in a Server/System Administration Position in Companies and want to get the certification in International market.

**100,000+ Students  
have been Trained**

since  
1997

**Program is  
offered by**

**3D EDUCATORS  
INTL**  
22 Years of  
Excellence in  
Training &  
Development

**Invest in  
People the  
only Asset  
that Appreciates**



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# MCSA Training Program

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# MCSA Training Program Program Details

## Inauguration

The Training Program will be inaugurated by a senior member of 3D EDUCATORS

## Program Structure

|                        |                 |
|------------------------|-----------------|
| No of classes per week | <b>01 Class</b> |
| Duration of each class | <b>2 – Hour</b> |
| Duration of Course     | <b>6 Months</b> |

## Other Learning Activities

|                           |          |
|---------------------------|----------|
| Classroom Assignment      | <b>6</b> |
| Presentations by Trainees | <b>1</b> |

## About the Program Instructor

The “Microsoft Certified Solutions Associate (MCSA)” Program has been designed and will be conducted the Senior Network Administrator who has 25 years’ experience in Computer Networking and System Administration.

The Person are qualified and certified in Networking and MCS and MBA.

At present, faculty is working with datacenter in a senior position, also involved in training and development for 25 years.

In Affiliation with



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**By the End of this course you will be able to:**

## MCSA COURSE CONTENTS

- Identify the steps to install and configure servers
- Identify the steps to install and administer Active Directory
- Identify the steps to configure Hyper-V
- Identify the steps to deploy and configure core network services
- Identify the steps to create and manage group policy

## Installing and Configuring Windows Server 2022 Installing and Configuring Windows Server 2022 Module 1

### Course Introduction

- Instructor Introduction
- Course Overview
- Prerequisites
- Certification Overview2

## Installing and Configuring Windows Server 2022 Module 2 Best Course Practices

- Lab Setup
- Building Your Own Environment
- Presentation Types
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 3 Windows Server 2022 Installation

- Available Editions
- Requirements
- Server Manager Overview
- Best Practice Analyzer
- Installing Server 2022

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- Performing a Windows Server 2022 Installation
- Windows Server 2022 Standard Configurations
- Server Manager Roles
- Remote Management Configuration
- Installation Review
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 4 Windows Server 2022 CORE

- Introduction to Windows Server 2022 CORE
- Minimum Server Interface
- Server Core Management
- CORE Roles
- Installation Options
- Installing and Configuring Server CORE
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 5 Windows Server 2022 Server Manager

- Dashboard Overview
- Servers
- Roles and Features
- Server Manager Creation and Configuration
- Server Manager Toolbar
- Local Server Management
- Configuring Server Manager Toolbar
- Chapter Review

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## Installing and Configuring Windows Server 2022 Module 6 Server Manager PowerShell

- Server Core Management Tools
- Windows PowerShell ISE Tool3

## Installing and Configuring Windows Server 2022 Module 7 PowerShell 101 Basics

- What is PowerShell
- Remoting
- Commands Cmdlets
- Server Administration
- Remote Server Administration
- PowerShell ISE
- Scripting
- More PowerShell Features
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 8 Windows Server 2022 Network DHCP

- Networking
- Network Components
- TCP/IPDHCP
- DHCP
- Installation
- IP and DHCP Tools
- DHCP Configuration
- Chapter Review

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## Installing and Configuring Windows Server 2022 Module 9 Windows Server 2022 Network Configuration IPv4

- IPv4 Basics
- IPv4 Addressing
- IPv4 Sub netting
- Network Adapter Settings
- Network Settings through the GUI
- Network Settings from a Command Line
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 10 Windows Server 2022 Network Configuration IPv6

- IPv6 Basics
- IPv6 Addressing
- IPv6 Simplification and Equivalents
- IPv6 Network Configuration
- Transition Technologies
- Configuring ISATAP
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 11 Windows Server 2022 Network DNS

- DNS Basics
- Zone Records and Types
- Records
- Name Resolution
- DNS Installation and Configuration
- DNS Query
- DNS Tools
- Working with DNS Tools
- Chapter Review



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# MCSA Training Program

## Installing and Configuring Windows Server 2022 Module 12 Windows Server 2022 Hyper-V

- Basic Overview of Virtualization
- What is Server Virtualization?
- Desktop Virtualization
- Presentation Virtualization
- Application Virtualization
- USV Virtualization
- Cloud Computing
- System Requirements
- Installing the Hyper-V Role
- Installing Hyper-V
- Configuring Hyper-V
- Managing Virtual Networks
- Configuration Settings In Hyper-V
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 13 Windows Server 2022 Active Directory Domain Services

- Active Directory Accounts
- Active Directory Administration
- Creating Active Directory User Account
- Active Directory Templates
- Creating a Template
- Command Line Tools
- PowerShell Scripting
- Adding Users and Groups In PowerShell
- Chapter Review



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# MCSA Training Program

## Installing and Configuring Windows Server 2022 Module 14 Windows Server 2022 AD Objects and Groups

- Groups
- Group Scope
- Default Groups
- Creating Groups
- AD DS Permissions
- AD DS Delegation
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 15 Windows Server 2022 Local Storage

- Active Directory Accounts
- Storage Basics
- Drive Types
- Volumes5
- File System
- Creating Mounts and Links
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 16 Windows Server 2022 Storage Spaces

- Storage Spaces
- High Available Virtual Disk
- Advanced Configuration
- Advanced Storage Space Management
- Working with Storage Space
- Chapter Review



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# MCSA Training Program

## Installing and Configuring Windows Server 2022 Module 17 Windows Server 2022 Files Folders Shadow Copy

- NTFS Permissions
- File/Folder Permissions
- File/Folder Rights
- Effective Permissions
- File/Folder Creation and Configuration
- Shadow Copies
- Creating and Restoring Shadow Copies
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 18 Windows Server 2022 Group Policy Object Basics

- Defining GPO
- GPO History
- Practical Application
- GPO Settings
- GPO Types
- GPO Overview
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 19 Windows Server 2022 GPO Central Store

- Storage of GPO
- Central Store
- Administrative Templates
- Multiple Local GPO
- Policy vs. Preference
- Managed vs. Unmanaged
- Creating a Central Store
- Chapter Review

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## Installing and Configuring Windows Server 2022 Module 20 Windows Server 2022 GPO Starter

- Building GPOs
- Available Settings6
- Export/Import
- Delegation
- Creating GPOs and Using a Starter GPO
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 21 Windows Server 2022 GPO Secure

- Security 101
- Types
- Security Template
- Rights
- Monitor
- Implementing Server Security
- Auditing File System Access
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 22 Windows Server 2022 GPO Application and Firewall

- Application Restrictions
- Software Restriction Policy
- AppLocker
- Creating AppLocker Rules
- Windows Firewall
- Windows Firewall Advanced Security
- Chapter Review



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# MCSA Training Program

## Installing and Configuring Windows Server 2022 Module 23 Windows Server 2022 Printing

- Network Printing
- Enhanced Point and Print
- V3 and V4 Drivers
- Printer Security
- Printer Pooling
- Branch Office Direct
- Installing and Configuring Printer Services
- Chapter Review

## Installing and Configuring Windows Server 2022 Module 24 Certification Preparation Review

- Microsoft Website Exam Overview
- Instant Expert
- Microsoft Official Curriculum
- Study Recommendation and Exam Preparation
- Chapter Review7



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# MCSA Training Program

Microsoft 70-411 Administering Windows Server 2022 Administering Windows Server 2022 Module 1

## Course Introduction

- Instructor Introduction
- Course Overview
- Microsoft Exam Information
- Prerequisites
- Certification Overview

## Administering Windows Server 2022 Module 2 Windows Server 2022 Course Components

- Making the Best of the Course
- Lab Setup
- Building Your Own Environment
- Presentation Types
- Chapter Review

## Administering Windows Server 2022 Module 3 Windows Server 2022 Active Directory Domain Services

- Domain Controller
- Virtual Domain Controller
- Deploying and Configuring
- Read Only Domain Controller (RODC)
- Installing RODC
- Chapter Review



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# MCSA Training Program

## Administering Windows Server 2022 Module 4 Windows Server 2022 AD DS and DB Management

- Active Directory
- DS Administrative Center
- DS with PowerShell
- AD DS Database
- DC States
- Using Ntdsutil
- Recycle Bin
- Using Active Directory Recycle Bin
- Chapter Review

## Administering Windows Server 2022 Module 5 Windows Server 2022 AD DS Account Creation

- User Accounts
- CSVDE Account Creation
- Command Line LDIFDE
- Command Line PowerShell
- Chapter Review8

## Administering Windows Server 2022 Module 6 Windows Server 2022 AD DS Account Management

- User Account Settings and Policies
- Password Policy
- Lockout Settings
- Password Policy and Account Lockout Settings
- Managing Service Accounts
- Managing Service Accounts Demonstration
- Chapter Review

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## Administering Windows Server 2022 Module 7 Windows Server 2022 Group Policy Object Creation

- Defining GPO
- Practical GPO Application
- GPO Types
- GPO Domain
- Implementing Group Policy
- Chapter Review

## Administering Windows Server 2022 Module 8 Windows Server 2022 GPO Management

- Administrative Templates
- .adm Files
- Central Store
- Folder Redirection
- Scripts
- Using Scripts and Folder Redirection
- Chapter Review

## Administering Windows Server 2022 Module 9 Windows Server 2022 GPO Software

- Basic Software Deployment
- Microsoft Installer
- Deployment Methods
- Upgrades
- Managing Software with GPO
- Chapter Review



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## Administering Windows Server 2022 Module 10 Windows Server 2022 GPO Processing

- Basic Process
- Process Order
- Inheritance and/or Precedence
- Windows Management Instrumentation (WMI) Filters
- Slow Link No Link
- GPO Processing
- Chapter Review9

## Administering Windows Server 2022 Module 11 Windows Server 2022 Data Fields

- Files
- File Server Resource Manager (FSRM)
- File Tasks
- FSRM Configuration
- Chapter Review

## Administering Windows Server 2022 Module 12 Windows Server 2022 Distributed File System

- File Sharing with DFS
- DFS Namespace
- DFS Replication
- Installing DFS
- Chapter Review

## Administering Windows Server 2022 Module 13 Windows Server 2022 Security and Encryption

- Encrypting File System Basics
- EFS Process
- EFS Recovery
- Advanced Auditing
- EFS and Auditing Demonstration
- Chapter Review



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## Administering Windows Server 2022 Module 14 Windows Server 2022 Domain Name System

- DNS Overview
- Installing and Managing DNS
- Resource Records
- Zone Types
- Zone Transfers
- Creating Zones and Zone Transfers
- DNS Management and Troubleshooting
- Monitoring and Troubleshooting

## Administering Windows Server 2022 Module 15 Windows Server 2022 Access and Authentication

- Network Access
- Authentication vs. Authorization
- Network Policy and Access Roles
- Creating a Network Access Role
- Network Policy
- Policy Processing and Configuration
- Network Policy Configuration
- Chapter Review10

## Administering Windows Server 2022 Module 16 Windows Server 2022 VPN and Direct Access

- Virtual Private Network
- Tunnel Protocols
- Authentication Methods
- Connection Manager Administration KIT
- Configuring a VPN Server
- Configuring a VPN Client
- Direct Access VS VPN
- DA Components
- Configuring Direct Access
- Chapter Review



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## **MCSA Training Program**

### **Administering Windows Server 2022 Module 17 Windows Server 2022 Network Policy Server**

- NPS Overview
- Radius Server
- Radius Proxy
- Network Access Protection
- Connection Request
- Authentication
- Monitoring
- Installing, Configuring and Troubleshooting NPS
- Chapter Review

### **Administering Windows Server 2022 Module 18 Windows Server 2022 Network Access Protection**

- NAP Overview
- Usage
- NAP Components
- NAP Policing
- System Health
- Remediation
- NAP Monitoring
- Implementing NAP
- Chapter Review

### **Administering Windows Server 2022 Module 19 Windows Server 2022 Windows Server Update Services**

- WSUS Overview
- WSUS Process
- Deployment Components
- WSUS Management
- WSUS Installation and Configuration
- Chapter Review



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# **MCSA** **Training Program**

## **Administering Windows Server 2022 Module 20** **Windows Server 2022 Windows Deployment Services**

- WDS Overview
- WDS Components
- WDS Installation
- WDS Deployment
- WDS Administration
- Installing and Configuring WDS
- Chapter Review

## **Administering Windows Server 2022 Module 21** **Windows Server 2022 Monitoring**

- Performance Monitor
- Task Manager
- Resource Monitor
- Event Viewer
- Monitoring Tools
- Chapter Review

## **Administering Windows Server 2022 Module 22** **Program Review**

- **Certification Overview**
- **Study Recommendations**
- **Exam Preparation**
- **Course Closing**



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# MCSA Training Program

## Microsoft 70-412: Configuring Advanced Windows Server 2022 Services Configuring Advanced Windows Server 2022 Services Module 1

### Course Introduction

- Instructor Introduction
- Course Overview
- What You Should Know
- Certification Overview
- Microsoft Learning Quote and Certification Audience

## Configuring Advanced Windows Server 2022 Services Module 2 Windows Server 2022 Course Specifics

- Lab Setup
- Lab Layout
- Demonstration and Presentation Types

## Configuring Advanced Windows Server 2022 Services Module 3 Windows Server 2022 Active Directory Domain Services

- Domain Tree
- Domain Forest
- Single Domain
- Multiple Domains
- Functional Level
- Upgrade Migrate
- Installing a Domain Controller
- Chapter Review12



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## Configuring Advanced Windows Server 2022 Services Module 4 Windows Server 2022 ADDS Domains and Forests

- Trust Relationships
- External Trust
- Forest Trust
- Realm Trust
- Shortcut Trust
- Authentication
- SID Filtering
- Name Suffix Routing
- Creating a Child Domain and Building a Trust

## Configuring Advanced Windows Server 2022 Services Module 5 Windows Server 2022 ADDS Sites

- Active Directory Sites
- Implementing ADD
- SRV Records
- Locating Local DC
- ISTG
- Active Directory Site Setup

## Configuring Advanced Windows Server 2022 Services Module 6 Windows Server 2022 ADDS Replication

- AD Parts
- Types of Replication
- Conflicts
- Sysvol
- Site Topology and Site Links
- Group Membership Caching
- Tools
- Site Replication



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## Configuring Advanced Windows Server 2022 Services Module 7 Windows Server 2022 Networking DNS

- DNS Administration
- Management
- Queries
- Global Name Zone
- DNS Security
- DNS Advanced Configuration

## Configuring Advanced Windows Server 2022 Services Module 8 Networking DHCP

- DHCP Basics
- Address Request
- Play Nice with DNS
- Scopes
- DHCP IPv613
- Name Protection
- DHCP Failover
- DHCP Advanced Configuration

## Configuring Advanced Windows Server 2022 Services Module 9 Networking IPAM

- IPAM Basics
- Reason to Use IPAM
- Components
- Requirements
- Security
- Management and Monitoring
- IPAM Installation and Configuration



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### **Configuring Advanced Windows Server 2022 Services Module 10 Data: Advanced File**

- File and Storage Basics
- File Server Resource Manager
- File Classification
- New Options
- File Classification Configuration
- Enabling Data Reduplication

### **Configuring Advanced Windows Server 2022 Services Module 11 Windows Server 2012: Dynamic Access Control**

- DAC Basics
- New vs Old
- Central Access Policy
- Implementing DAC
- Deploying DAC
- Implementation of Dynamic Access Control

### **Configuring Advanced Windows Server 2022 Services Module 12 Windows Server 2022 Data: Storage**

- Storage Basics
- iSCSI Parts
- iSCSI Security
- Branch Cache
- Configuring SCSI and iSCSI Storage
- Configuring Branch Cache

### **Configuring Advanced Windows Server 2022 Services Module 13 Business Continuity: Backups**

- Backup Basics
- Server Backup
- Online Backup
- Recovery
- Data Protection Manager
- Implementing a Windows Server Backup<sup>14</sup>



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### **Configuring Advanced Windows Server 2022 Services Module 14 Operating System Deployment**

- Task Sequence Creation
- Task Sequence Deployment
- implementing an In-place Upgrade

### **Configuring Advanced Windows Server 2022 Services Module 15 High Availability Network Load Balancing**

- Network Load Balancing Basics
- NLB Functionality
- NLB New Features
- NLB Deployment
- Additional NLB Configuration
- Planning for NLB
- Securing NLB
- NLB Cluster Setup
- Configuring NLB Cluster
- Host Availability

### **Configuring Advanced Windows Server 2022 Services Module 16 High Availability Failover Clustering**

- High Availability Basics
- HA New Features
- HA Components
- Features CSV
- Quorum (Modes)
- Failover Clustering
- Cluster Deployment Requirements
- Failover Cluster Setup and Configuration
- HA File Server Setup and Configuration
- Cluster Aware Updating



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### **Configuring Advanced Windows Server 2022 Services Module 17 HA Hypervisor and VM**

- HA Basics with Hyper-V
- Failover Clustering with Hyper-V
- New Features
- Migration
- SCCM
- Best Practices
- HV Replica
- Virtual Machine Cluster Setup
- Failover Cluster Configuration for Hyper-V

### **Configuring Advanced Windows Server 2022 Services Module 18 Access and Identity: Certificates**

- Public Key Infrastructure Basics
- Components PKI Solution15
- AD CS New Features
- Certificate Templates
- Enrollment Types
- Certificate Revocation List
- Key Recovery
- Building a Root CA
- Deploying and Configuring an Enterprise Subordinate CA
- Managing Certificate Templates
- Certificate Revocation

### **Configuring Advanced Windows Server 2022 Services Module 19 Active Directory Federation Services**

- AD FS Services
- Web Security Components
- AD FS New Features
- SSO
- Deployment
- Claims



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- AD FS Setup and Configuration
- Installing AD FS Role
- Installing AD FS for a Single Organization
- Configuring AD Claims Provider Trust

### **Configuring Advanced Windows Server 2022 Services Module 20 Active Directory Rights Management**

- AD RMS Basics
- RMS Usage
- AD RMS Components
- Certificates/Licenses
- AD RMS Process
- AD RMS Deployment
- Rights Policy Templates
- Creating a Super User Group and Service Group
- Installing and Configuring AD RMS
- Build and Deploy a Policy Template
- Implementing RMS Trust Policies
- Anonymous Access Setup
- Creating a Rights Protected Document

### **Configuring Advanced Windows Server 2022 Services Module 21 Course Review**

- Course Review
- Certification Overview
- Exam Preparation



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## Terms & Conditions

### WITHDRAWAL FROM THE DIPLOMA/CERTIFICATION

Students are not allowed to withdraw from the Diploma. If a student cannot continue the Diploma his/her fee will be forfeited.

### CONDUCT AND DISCIPLINE

A disciplinary action, leading to rustication, will be taken against students whose conduct is found objectionable at any time during the course of study. Reference will be made to 3D Educators code of conduct.

### EVALUATION AND GRADING

The performance of students is evaluated through continuous observation of a student's performance in the Diploma – class participation, submission of assignments, quizzes and exercises.



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## **MCSA Training Program**

The student will be examined through three hourly exams conducted at the midterm and a final exam at the end of the program. Total marks for passing the Diploma will be 60 out of a total of 100.

Students who do not meet the attendance or any other eligibility criteria will not be allowed to appear in the final examination.

The following grading plan will be applicable for the Diploma:

|           |                 |
|-----------|-----------------|
| <b>A</b>  | <b>87 - 100</b> |
| <b>B+</b> | <b>81 -86</b>   |
| <b>B</b>  | <b>72 - 80</b>  |
| <b>C+</b> | <b>66 - 71</b>  |
| <b>C</b>  | <b>60 - 65</b>  |
| <b>F</b>  | <b>below 60</b> |



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Students who are unable to appear for the final exam are required to submit a written application stating the reason for not appearing for the exam. 3D Educators reserves the right to approve or deny such applications. If approved, the student will be allowed to sit for the exam within one month. Failure to do so, the student will be resubmit the examination fee and sit the future schedule exam. Without passing of the exams no certification will be awarded.

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## ONLINE LIVE CLASSES FACILITY AVAILABLE

- Instructor Led Training
- Real Time Presentations
- Interactive Classes
- Complete Notes and Other Stuff shall be provided through our Secure Student Login Member's Area
- For Online Live Classes, you may please download the Admission Form through our website <http://www.3deducators.com>. Fill it properly and attached the required document along with Picture and send back to [info@3deducators.com](mailto:info@3deducators.com) with scanned fee submitted voucher in the bank.
- For Pakistan you may submit the fee at any MCB Branch with the title of "3D EDUCATORS-TRAINERS & CONSULTANTS".
- If you are outside Pakistan then you may transfer via Bank to Bank or any western union, Fast Track, Money Gram or else International Transfer Body.
- After Admission, if you don't have GMAIL Account then you are requested to kindly make one GMAIL Account and shared it [info@3deducators.com](mailto:info@3deducators.com). Then further correspondence shall be made by our institute official.
- Extra Bandwidth Charges shall be incurred.

## DISTANCE NOT MATTER

You can join in the live classes Sessions of 3D EDUCATORS – TRAINERS & CONSULTANTS from anywhere of the world.

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## PRECAUTIONARY MEASURES

- During Classes, you are requested to make sure that you are in isolated room, where no noise should be there except your voice.
- Kindly Switch Off your Cell Phone during the class, because it will disturb the quorum of class.
- If you have taken the admission in the course online lonely, then ethically it is recommended and suggested that you alone in the class.
- Recording of Lectures are not allowed at your end.

This world is emerging and growing in the 21st Century very rapidly because of latest and remarkable technologies and its advancement. Due to advancement of technology, we 3D EDUCATORS offer Live Interactive class sessions

3D EDUCATORS believe on Information Technology and its systems. Now you can also avail this facility at your home.

## CONTACT US

021-34141329, 0333-2402474  
021-34857148

info@3deducators.com  
<http://www.3deducators.com>

Get the Admission Form

[Download Form](#) |



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## SAMPLE CERTIFICATE



# CERTIFICATE

*Invest In People the Only Asset that Appreciates...*

*The Certificate Witnesseth that  
Dr. Muhammad Allama Iqbal  
Has Successfully Completed the 32-Hours Training of the*

**MCSA**

**Conducted By**

**3D EDUCATORS - TRAINERS & CONSULTANTS**

**From 22 Nov 2009 To 22 Jan 2010**

**CERTIFICATE ID: 3DCIA1010/5/2003093**



Principal of Institute

**Global Partner - International Management Research & Technology Consortium - IMRTC USA**  
**Global Partner - PECB CANADA, Partner Institute of SDC - Government of Pakistan**