

Microsoft Certified Solutions Associate (MCSA) Workshop (Windows Server 2012)

TrainingType	<input checked="" type="checkbox"/> Hands on Training <input checked="" type="checkbox"/> Simulation <input checked="" type="checkbox"/> Workshop
Training Responsible	<ul style="list-style-type: none"> Engr. Zahid Mehmood
Expected Accomplishments	<p>The MCSA Server Administrator certification to demonstrate your leadership and problem solving skills in working with Windows Server 2012. Server administrators are recognized among their peers and managers as leaders in the daily operations management of Windows Server 2012. Demonstrate and communicate your ability to administer Windows Server 2012 systems and increase your organization's return on technology investment by earning the MCSA Server Administrator certification. Develop and validate your skills in your current position, or propel you toward a future role, such as: Windows server administrator, Server systems administrator, Monitoring operator, Network administrator</p> <p>The Microsoft Certified IT Professional, MCSA, credential is the leading certification for Windows Server 2012, providing widely recognized, objective validation of your ability to perform critical, current IT job roles by using Microsoft technologies to their best advantage.</p>
Participants	1. Students of Session 2K13 only-Department of Software Engineering
Date & Time	Scheduled by STIC, UET Taxila
Facilitators/Industry Partners	Engr. Zahid Mehmood
Training Venue	STIC, UET Taxila
Resources Required	Computer Lab with 15-25 Machines (can vary upon workshop participants)

Module Details

Week 1	
Module 1: Installing and Configuring Servers	
<ul style="list-style-type: none"> Installing Windows Server 2012 Managing Server Roles and Features Overview of the Server Core Installation Option 	

Module 2: Installing and Configuring Client
<ul style="list-style-type: none"> • Installing Client • Joining Client to a Domain
Module 3: Implementing Active Directory Domain Services
<ul style="list-style-type: none"> • Introducing AD DS • □Implementing AD DS
Module 4: Managing Users, Groups, and Computers
<ul style="list-style-type: none"> • Creating user • Creating Group • Creating Organizational Unit • Types of group • Group Scope • Default Group In AD • System Group • Saved Queries
Module 5: Managing Access to Resources
<ul style="list-style-type: none"> • Sharing Folders • Accessing Shared Folders from across the Network • Explicit Deny and Implicit Deny • Publishing a Folder
Module 6: NTFS Permissions
<ul style="list-style-type: none"> • Permissions • NTFS Inheritance • Effective Permission • Offline Files
Week 2
Module 7: Printers
<ul style="list-style-type: none"> • Types of Printers • Installation Of Local Printer • Installation Of Network Printer • Adding Additional Drivers • Updating New Driver • Printer Pooling • Printer Spooling • Deleting Printer Driver Permanently
Module 8: Delegating Power
<ul style="list-style-type: none"> • Delegating Power in AD • Delegating Administrative Powers to a common user on OU • Delegating Power to the domain user over the Domain • Run as Functionality
Module 9: Group Policies
<ul style="list-style-type: none"> • Creating GPO • Creating Own Policy • Create GPO and Link to OU • Create a Group Policy And Link it to a Site

• Starter GPO
• Search GPO
• Blocking Policy Inheritance
• Enforced
• Prevent a Simple User in an OU/domain from being applied a GP
• To see only changed setting in a GPO
• To force GP changing without Logging on or Off or through restarting
• Script
• Folder Redirection
• To see resultant set of policies applied on a PC
• Group Policy Result
Module 10: Preparing To Administrator As Server
• Remote Desktops, Computer Management
• Remote Desktop Connection
• Remote Desktop from Server
• To Kill a Session
Module 11: Monitoring Server Performance
• Types Of Monitoring
• Data Collector Set
• Counter Logs
• Alert
Module 12: Event Viewer
• Types of Event Viewer
• Filtering the Current Logs
• Event Properties
• Saving Event Logs
• Opening Event Logs
• Paging
• Device Manager
Week 3
Module 13: Managing Disk
• Disk Formats
• Change Drive Letter
• Mounted Volume
• Mirrored Volume
• RAID- 5
Module 14: Managing Data Storage
• Compression
• Encryption
• Disk Quotas
Module 15: Managing Disaster Recovery
• Backup and Restoration
• Recovery
• Shadow Copy
• System Restore

Module 16: DHCP Server
• Installing DHCP Server
• Reservation
• New Scope Creation
• DHCP Relay Agent
• APIPA and Alternative IP
• Maintenance of DHCP
Module 17: DNS
• Typical DNS Setup
• Zone
• Reverse Lookup Zone Configuration
• Forwarder
• Monitoring
• Manually Update Record
• Installing DNS
Module 18: Server 2012 as a Router
• Router on a WAN
• Router on a LAN
• Routing Protocol
• For WAN Interface to add routing Protocol to the Interface
• Add Router In the Routing Table of a PC
• Access List
Week 4
Module 19: Active Directory Infrastructure
• Installation of child DC
• Installation of additional DC
• Two Way Trust
• Two Way Transitive Trust
• Raise Domain Functional level & Forest Functional Level
• Verify Trust Relationship
• Create Explicit Trust Relationship Between Forests
Module 20: Group Policy Backup and Restoration
• Installation, Up gradation, Removal of software using GP
• Import Group Policy Settings
• Configure Refresh Interval of GP for Client and for DC's
Module 21: Operational Master Roles
• Forest level Roles
• Domain level Roles
• Transfer Roles
• Seize Roles
Module 22: Maintaining AD
• Defragmentation
• Moving AD Database
• Backup and Recovery of a DC
Module 23: Windows software update services (WSUS)

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| • Overview of WSUS |
| • Installation of WSUS |
| • Using Group Policy for Software updates |