

MCSE: server infrastructure Syllabus

General Information

Description

The Microsoft Certified Solutions Expert (MCSE): Server Infrastructure course trains you to acquire the skills needed to run a highly efficient and modern data center, with expertise in identity management, systems management, virtualization, storage, and networking. It prepares you in the right way to take up Microsoft's MCSE certification.

There are totally 5 papers that one has to write in order to get certified. Below given are the five papers.

Installing and Configuring Windows Server 2012 70-410

Administering Windows Server 2012 70-411

Configuring Advanced Windows Server 2012 Services 70-412

After successfully completing Above Certifications
You'll earn a Microsoft Certified Solutions Associate (MCSA): Windows Server 2012 Certification

Designing and Implementing a Server Infrastructure 70-413

Implementing an Advanced Server Infrastructure 70-414

This MCSE certification requires you to show continued ability to perform in your chosen solution area by completing a recertification exam every three years.

Course Deliverables

Classroom training

Instructor led classroom training will be given. All classes are demonstration based. We don't teach just theory.

We teach every concept using real-time case studies

All our classrooms are digital classrooms.

Lab

Students can practice all the concepts taught in classrooms at our Lab facility. Each student will be given individual setup to practice the lab. They need not combine and do labs.

Our lab coordinators will help you when you are doing the labs

Books and workbooks

Students will be a given textbooks and workbooks for the course

Course topics

70-410

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

Hyper-V –Creating and configuring virtual machines

Hyper-V –Creating and configuring virtual machine storage

Hyper-V –Creating and configuring virtual networks

IPv4 and IPv6

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

70-411

Deploy and manage Windows Deployment Services (WDS)

Install and configure Windows Server Update Service (WSUS)

Configure DCS to monitor servers,

VMs,networking, real time performance

Configure Distributed File system (DFS)

Configure File Server Resource Manager (FSRM)

Configure file and disk encryption

Configure routing

Configure NAT

Configure VPN

Configure RADIUS servers

Configure Network Access Protection

FSMO roles

Active Directory backup and restoration

Active directory task delegation
Active Directory object and container level recovery
Advance Group Policy Object configuration and management

70-412

Configure Network Load Balancing (NLB)
Configure failover clustering
Manage Virtual Machine (VM) migration
Configure advanced file services
Implement Dynamic Access Control (DAC)
Configure and optimize storage
Configuring Windows server backup tool
Bare metal recovery
Understanding Windows booting and troubleshooting booting issues
Configuring Hyper-V site level fault tolerance
Advanced DHCP
Advanced DNS
Active Directory Forest trust relationship
Active Directory sites and services
Active Directory Certificate services
Active Directory Rights Management Services (ADRMS)

70-413

Design an automated server installation strategy
Plan and implement a server deployment infrastructure
Plan and implement server upgrade and migration
Plan and deploy Virtual Machine Manager services
Plan and implement file and storage services
Design and maintain a Dynamic Host Configuration Protocol (DHCP) solution
Design a name resolution solution strategy
Design and manage an IP address management solution
Design a VPN solution
Design a forest and domain infrastructure
Design a Group Policy strategy
Design an Active Directory permission model
Design an Active Directory sites topology
Design a domain controller strategy

70-414

Plan and implement failover clustering
Plan and implement highly available network services
Plan and implement highly available storage solution
Plan and implement highly available server roles
Plan and implement a business continuity and disaster recovery solution
Plan and implement virtualization hosts

Plan and implement virtualization guests
Plan and implement virtualization networking
Plan and implement virtualization storage
Plan and implement virtual guest movement