



Designing and Implementing a Server Infrastructure

(MS20413)

Introduction

This course is intended for IT professionals who are responsible for planning, designing, and deploying a physical and a logical Windows Server 2012 enterprise AD DS infrastructure including the network services necessary. Students have experience of previous Windows Server operating systems and possess Windows Server 2012 Microsoft Certified Solutions Associate (MCSA) certification or equivalent skills.

To complete the complete Microsoft MCSE Server 2012, 4 other modules need to be taken.

MS20410 - Installing and Configuring Windows Server 2012

MS20412 - Configuring Advanced Windows Server 2012 Services

MS20411 - Administering Windows Server 2012

MS20414 - Implementing an Advanced Server Infrastructure

Target Audience:

This course is also intended for IT professionals who are looking to take the exam 70-413: Designing and Implementing a Server Infrastructure, as a stand-alone, or as part of the requirement for the Microsoft Certified Solutions Expert (MCSE): Server Infrastructure certification.

Certificate Of Attendance :

Certificate Of Attendance will be awarded to participants completing the course achieving minimum 75% attendance.

Training Duration:

Full-time: 5 Days

Time : 9.30am – 5.30pm

Exam Fee :

Course : S\$2,999 excluding Microsoft Exam

Regn Fee: S\$50

Microsoft Exam Code : 70-413

All fees subject to GST 7%.

Microsoft Exam :

- This course prepares participants for Microsoft Exam : 70-413

DETAILED COURSE OUTLINE

MS20413B : Designing and Implementing a Server Infrastructure

Module 1: Planning a Server Upgrade and Migration

This module explains how to plan a server upgrade and migration strategy.

- Upgrade and Migration Considerations
- Creating a Server Upgrade and Migration Plan
- Planning for Virtualization

Module 2: Planning and Implementing a Server Deployment Infrastructure

This module explains how to design an automated server installation strategy and plan and implement a server deployment infrastructure.

- Selecting an Appropriate Server Imaging Strategy
- Selecting a Deployment Automation Strategy
- Implementing an Automated Deployment Strategy

Module 3: Designing and Maintaining an IP Configuration and Address Management Solution

This module explains how to design and maintain IP address management (IPAM) and a Dynamic Host Configuration Protocol (DHCP) solution.

- Designing and Implementing DHCP
- Planning and Implementing DHCP Scopes
- Planning and Implementing an IPAM Provisioning Strategy

Module 4: Designing and Implementing Name Resolution

This module explains how to design a name resolution solution strategy.

- Designing a Domain Name System (DNS) Server Implementation Strategy
- Designing the DNS Namespace
- Designing and Implementing DNS Zones

- Designing and Configuring DNS Zone Replication and Delegation
- Optimizing DNS Servers
- Designing DNS for High Availability and Security

Module 5: Designing and Implementing an Active Directory Domain Services Forest and Domain Infrastructure

This module explains how to design and implement an Active Directory Domain Services (AD DS) forest and domain infrastructure.

- Designing an AD DS Forest
- Designing and Implementing AD DS Forest Trusts
- Designing and Implementing AD DS Domains
- Designing DNS Namespaces in AD DS Environments
- Designing AD DS Domain Trusts

Module 6: Designing and Implementing an Active Directory Organizational Unit Infrastructure

In this module, you will learn how to design and implement an organizational unit (OU) infrastructure and AD DS permissions model.

- Planning the Active Directory Administrative Tasks Delegation Model
- Designing the OU Structure
- Designing and Implementing an Active Directory Group Strategy

Module 7: Designing and Implementing a Group Policy Object Strategy

This module explains how to design and implement a Group Policy Object (GPO) strategy.

- Gathering the Information Required for a GPO Design
- Designing and Implementing GPOs
- Designing GPO Processing
- Planning Group Policy Management

Module 8: Designing and Implementing an Active Directory Domain Services Topology

This module explains how to design an AD DS sites topology and a domain controller placement strategy.

- Designing and Implementing AD DS Sites
- Designing AD DS Replication
- Designing the Placement of Domain Controllers
- Virtualization Considerations for Domain Controllers
- Designing Highly Available Domain Controllers

Module 9: Planning and Implementing Storage

This module how to plan and implement storage.

- Storage Considerations
- Planning and Implementing iSCSI SANs
- Storage Spaces in Windows Server 2012

Module 10: Planning and Implementing File Services

This module explains how to plan and implement file services.

- Planning and Implementing DFS
- Planning and Implementing BranchCache
- Planning and Implementing Dynamic Access Control

Module 11: Designing and Implementing Network Access Services

This module how to design and implement network access services.

- Designing and Implementing Remote Access Services
- Designing RADIUS Authentication by Using NPS
- Designing a Perimeter Network
- Planning and Implementing DirectAccess

Module 12: Designing and Implementing Network Protection

This module explains how to design and implement network protection.

- Overview of Network Security Design
- Identifying and Mitigating Common Network Security Threats
- Designing and Implementing a Windows Firewall Strategy
- Designing and Implementing a NAP Infrastructure



IT Enabler Consultancy Pte Ltd

(Co Reg No. 200211025Z)

35 Selegie Road #09-06 Parklane Shopping Mall Singapore 188307

Tel : 6333 4843 Fax : 63334883 URL : www.ienabler.com.sg