

**VOISIP TELECOMMUNICATIONS LIMITED**  
**MCSA 70-742 COURSE OUTLINE**

**Module 1: Install & configure Active Directory Domain services (AD DS)**

**Lesson 1:**

This module describes active directory domain services (AD DS) features, installation processes. It also details RODC installation and various deployment considerations.

- Active Directory Domain Services (AD DS) overview
- Understanding a A.D domain controller
- Adding, removing, upgrading a domain controller from a domain
- Server 2016 core installation
- Installation of domain controller via install from media (IFM)
- Global catalog configuration
- Transferring & seizing operations master roles
- Read only domain controller (RODC) installation & configuration
- Domain controller cloning

**Lesson 2: Management of AD DS objects**

This module describes management techniques for active directory objects which includes creating, deleting and configuring users, groups and computer objects.

- Creating & managing AD users and groups.
- Creating & Managing AD computers objects.
- Creating & Managing A.D organizational units.
- Performing bulk A.D operations using windows PowerShell
- Implementing offline domain join
- Managing inactive & disabled accounts
- Automating password resets

- Configuring A.D groups. Convert groups, including security, distribution, and universal, domain local & global.
- Automating group membership using windows PowerShell
- Create, copy, configure, delete groups and OUs

### **Module 3: Configuring Active Directory in a complex enterprise environment.**

This module describes how to design and implement an AD DS environment featuring multiple domains and forests. The module provides an overview of the components in an advanced AD DS deployment, the process of implementing a distributed AD DS environment, and the procedure for configuring AD DS trusts.

#### Lessons

- Brief overview of a complex AD DS environment
- Distributed AD DS environment
- Configuring Multi-domain & multi-forest Active Directory Infrastructure
- Deploying Windows 2016 DCs within pre-existing AD environment
- Upgrading existing domains & forests
- Configuring domain & forest functional levels.
- Configuring external, forest, shortcut, and realm trust authentication.
- Moving domain controllers between sites
- Implementing forest trusts.
- Implementing child domains in AD DS
- Configuring Active Directory trusts.

### **Module 4: Implementing & administering AD DS Sites & Replication**

This module explains how to configure an AD DS deployment that involves multiple locations. It also explains on the process of replication in AD DS

- Overview of AD DS replication
- Configuring sites & subnets. Creating site links.
- Monitoring & configuring AD DS replication between sites

## **Module 5 : Implementing Active Directory Group Policy.**

This module explains how to use Group policy to effect centralized changes in an AD DS infrastructure. It also explains the component of the Group policy framework.

- Introduction to group policy
- Manage starter GPOs. Configure GPO links
- Configure multiple group policies
- Backup, copy and restore GPOs.
- Configuring group policy scope and group policy processing
- Troubleshooting group policy infrastructure
- Verifying GPO application

## **Module 6: Managing User Settings with Group Policy**

This module describes how to configure Group Policy settings and Group Policy preferences. This includes implementing administrative templates, configuring folder redirection and scripts, and configuring Group Policy preferences.

### **Lessons**

- Implementing Administrative templates
- Configuring folder redirection, software installation and scripts
- Configuring Group policy preferences
- Configure enforced policies.
- Configuring printer preference
- Defining network drive mappings
- Configure power options, Configuring Control panel setting, Configure internet explorer settings

## **Module 7: Module 7: Securing Active Directory Domain Services**

This module describes how to configure domain controller security, account security, password security, and Group Managed Service Accounts (gMSA).

### **Lessons**

- • Securing domain controllers
- • Implementing account security
- • Implementing audit authentication
- • Configuring managed service accounts
- Configure Domain and local user password policy
- Configuring password settings object (PSO)
- Configuring account lockout policy
- Configuring Kerberos policy settings within group policy
- Implementing audit authentication

## **Module 8: Implement Active Directory certificate Services (AD CS)**

This module describes how to implement and AD CS deployment, which includes deploying, administering and troubleshooting CAs. This module also deepens into managing certificate revocation and recovery, using certificates in a business environment and implementing smartcards.

### **Lesson**

Installing Active directory Integrated enterprise Certificate Authority (CA)

Installing offline root & Sub-ordinate CAs

Installing Stand-alone CAs. Configuring Certificate Revocation List (CRL)

Configure CA backup and recovery.

Deploying and managing certificate templates

Managing certificate deployment, revocation and recovery

Using certificates in a business environment

Implementing and managing smart cards.

