

## Course 20412D: Configuring Advanced Windows Server® 2012 Services Exam Code: 70-412

### Course Outline

#### Module 1: Implementing Advanced Network Services

In this module students will be able to configure advanced features for Dynamic Host Configuration Protocol (DHCP) and Domain Name System (DNS), and configure IP Address Management (IPAM).

##### Lessons

Configuring Advanced DHCP Features  
Configuring Advanced DNS Settings  
Implementing IPAM  
Managing IP Address Spaces with IPAM

##### Lab : Implementing Advanced Network Services

#### Module 2: Implementing Advanced File Services

In this module students will be able to configure file services to meet advanced business requirements.

##### Lessons

Configuring iSCSI Storage  
Configuring BranchCache  
Optimizing Storage Usage

##### Lab : Implementing Advanced File Services

##### Lab : Implementing BranchCache

#### Module 3: Implementing Dynamic Access Control

In this module students will be able to configure Dynamic Access Control (DAC) to manage and audit access to shared files.

##### Lessons

Overview of DAC  
Implementing DAC Components  
Implementing DAC for Access Control  
Implementing Access Denied Assistance  
Implementing and Managing Work Folders

##### Lab : Implementing Secure Data Access

#### Module 4: Implementing Distributed Active Directory Domain Services Deployments

In this module students will be able to plan and implement an Active Directory Domain Services (AD DS) deployment that includes multiple domains and forests.

##### Lessons

Overview of Distributed AD DS Deployments  
Deploying a Distributed AD DS Environment  
Configuring AD DS Trusts

##### Lab : Implementing Distributed AD DS Deployments

### **Module 5: Implementing Active Directory Domain Services Sites and Replication**

In this module students will be able to plan and implement an AD DS deployment that includes multiple locations.

#### **Lessons**

AD DS Replication Overview  
Configuring AD DS Sites  
Configuring and Monitoring AD DS Replication

**Lab : Implementing AD DS Sites and Replication**

### **Module 6: Implementing AD CS**

In this module students will be able to implement an Active Directory Certificate Services (AD CS) deployment.

#### **Lessons**

Using Certificates in a Business Environment  
PKI Overview  
Deploying CAs  
Deploying and Managing Certificate Templates  
Implementing Certificate Distribution and Revocation  
Managing Certificate Recovery

**Lab : Deploying and Configuring CA Hierarchy**

**Lab : Deploying and Managing Certificates**

### **Module 7: Implementing Active Directory Rights Management Services**

In this module students will be able to implement an AD RMS deployment.

#### **Lessons**

AD RMS Overview  
Deploying and Managing an AD RMS Infrastructure  
Configuring AD RMS Content Protection  
Configuring External Access to AD RMS

**Lab : Implementing AD RMS**

### **Module 8: Implementing and Administering AD FS**

In this module students will be able to implement an Active Directory Federation Services (AD FS) deployment.

#### **Lessons**

Overview of AD FS  
Deploying AD FS  
Implementing AD FS for a Single Organization  
Deploying AD FS in a Business-to-Business Federation Scenario  
Extending AD FS to External Clients

**Lab : Implementing AD FS**

**Lab : Implementing AD FS for External Partners and Users**

## **Module 9: Implementing Network Load Balancing**

In this module students will be able to provide high availability and load balancing for web-based applications by implementing Network Load Balancing (NLB).

### **Lessons**

Overview of NLB

Configuring an NLB Cluster

Planning an NLB Implementation

### **Lab : Implementing NLB**

## **Module 10: Implementing Failover Clustering**

In this module students will be able to provide high availability for network services and applications by implementing failover clustering.

### **Lessons**

Overview of Failover Clustering

Implementing a Failover Cluster

Configuring Highly Available Applications and Services on a Failover Cluster

Maintaining a Failover Cluster

Implementing a Multi-Site Failover Cluster

### **Lab : Implementing Failover Clustering**

## **Module 11: Implementing Failover Clustering with Hyper-V**

In this module students will be able to deploy and manage Hyper-V virtual machines in a failover cluster.

### **Lessons**

Overview of Integrating Hyper-V with Failover Clustering

Implementing Hyper-V Virtual Machines on Failover Clusters

Implementing Hyper-V Virtual Machine Movement

### **Lab : Implementing Failover Clustering with Hyper-V**

## **Module 12: Implementing Business Continuity and Disaster Recovery**

In this module students will be able to implement a backup and disaster recovery solution based on business and technical requirements

### **Lessons**

Data Protection Overview

Implementing Windows Server Backup

Implementing Server and Data Recovery

### **Lab : Implementing Windows Server Backup and Restore**