



IMECAF®

[www.imecaf.com](http://www.imecaf.com)

# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

TI



**INVERSIÓN**  
\$3,999.00 + IVA

**DURACIÓN**  
40 HRS.

**MODALIDAD**  
En Linea



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

## OBJETIVO

El curso de Windows Server Pro: Advanced Services es el nivel final para la culminación de la certificación MCSA y simula una red de más de cuarenta servidores en siete ubicaciones. Las simulaciones de laboratorio avanzadas en este curso permitirá al estudiante la práctica de tareas complejas que se espera lleve a cabo en los servidores de una empresa mediana. Este curso prepara para la certificación Microsoft 70-412.

## DIRIGIDO A

Este curso de Servicios Avanzados de Windows Server va dirigido a toda persona interesada en obtener la certificación Microsoft 70-412, así como cualquier miembro del área de sistemas o redes de alguna empresa que quiera aprender a administrar de forma avanzada este sistema operativo.

## TEMARIO

### I. ACTIVE DIRECTORY INFRASTRUCTURE

#### a. MultiDomain Forests

- i. MultiDomain Forests (10:37)
- ii. Upgrading MultiDomain Forests (10:01)
- iii. Adding a New Child Domain (7:35)
- iv. Adding Server 2012 Domain Controllers Facts
- v. Domain and Forest Functional Level Facts
- vi. Functional Level Management Facts
- vii. Raise Functional Levels
- viii. Raise the Domain and/or Forest Levels
- ix. Practice Questions Section 1.1 (5 questions)



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

## b. **CrossForest Trusts**

- i. CrossForest Trusts (6:26)
- ii. Preparation for a CrossForest Trust (1:29)
- iii. Preparing for a CrossForest Trust (7:40)
- iv. Creating a CrossForest Trust (11:56)
- v. Trust Facts
- vi. CrossForest Trust Facts
- vii. Create a Forest Root Trust
- viii. Design Trusts
- ix. Practice Questions Section 1.2 (9 questions)

## c. **External, Shortcut and Realm Trusts**

- i. External, Shortcut and Realm Trusts (5:00)
- ii. Creating a Shortcut Trust (2:23)
- iii. External, Shortcut and Realm Trust Facts
- iv. Create a Shortcut Trust
- v. Practice Questions Section 1.3 (4 questions)

## d. **Sites Overview**

- i. Overview of Sites (7:54)
- ii. Creating Sites, Subnets, and Site Links (12:47)
- iii. Site Facts
- iv. Manage Sites and Subnets
- v. Practice Questions Section 1.4 (3 questions)

## e. **Managing Sites**

- i. Site Management (17:10)
- ii. Managing Sites (10:01)
- iii. Site Management Facts
- iv. Practice Questions Section 1.5 (10 questions)

## f. **Managing Replication**

- i. Active Directory Replication (12:46)
- ii. Monitoring and Managing Replication (12:51)



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

- iii. Site Replication Facts
- iv. Site Replication Configuration Facts
  - v. Bridged Site Cost Facts
  - vi. SYSVOL Replication Facts
  - vii. Configure Intrasite Replication
  - viii. Configure Intersite Replication
  - ix. Practice Questions Section 1.6 (15 questions)

**g. ReadOnly Domain Controllers (RODCs)**

- i. ReadOnly Domain Controllers (9:11)
- ii. PreStaging RODC Accounts (6:53)
- iii. Joining an RODC to the Domain (4:57)
- iv. RODC Facts
- v. RODC Requirements Facts
- vi. RODC Installation Facts
- vii. Create RODC Accounts
- viii. Practice Questions Section 1.7 (5 questions)

**h. RODC Management**

- i. RODC Management (9:52)
- ii. Managing RODCs (6:01)
- iii. RODC Management Facts
- iv. Password Replication Policy Facts
- v. Edit the Password Replication Policy
- vi. Practice Questions Section 1.8 (6 questions)

## II. FILE AND STORAGE SOLUTIONS

**a. Network File System (NFS)**

- i. NFS Overview (1:53)
- ii. Configuring an NFS Data Store (12:10)
- iii. NFS Facts
- iv. Configure an NFS Share
- v. Practice Questions Section 2.1 (4 questions)



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

## b. **BranchCache**

- i. BranchCache Overview (5:34)
- ii. Configure BranchCache (6:11)
- iii. BranchCache Facts
- iv. BranchCache Configuration Facts
- v. Practice Questions Section 2.2 (10 questions)

## c. **Dynamic Access Control (DAC)**

- i. DAC Overview (10:22)
- ii. Configuring File Classification Infrastructure (FCI) using FSRM (11:30)
- iii. Implementing DAC Policies (19:59)
- iv. DAC Facts
- v. DAC Implementation Facts
- vi. Configure File Classification Infrastructure
- vii. Practice Questions Section 2.3 (4 questions)

## d. **DAC Management**

- i. DAC Management (5:01)
- ii. Implementing Policy Changes and Staging (6:40)
- iii. Performing Accessdenied Remediation (5:09)
- iv. DAC Management Facts
- v. Practice Questions Section 2.4 (3 questions)

## e. **Advanced Storage**

- i. iSCSI and Internet Storage Name Server (iSNS) (2:35)
- ii. Configuring an iSCSI Target (2:23)
- iii. Configuring the iSCSI Initiator (4:19)
- iv. Configuring iSNS (3:11)
- v. iSCSI Facts
- vi. iSNS Facts
- vii. Configure an iSCSI Target
- viii. Configure the iSCSI Initiator
- ix. Practice Questions Section 2.5 (8 questions)



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

## f. **Storage Optimization**

- i. Storage Optimization (4:33)
- ii. Optimizing Storage (12:33)
- iii. Storage Tiers (12:51)
- iv. Storage Spaces Facts
- v. Storage Optimization Facts
- vi. Practice Questions Section 2.6 (8 questions)

## III. **DISASTER RECOVERY**

### a. **Windows Server Backup**

- i. Windows Server Backup (3:16)
- ii. Configuring Windows Server Backup for Local Backup (2:33)
- iii. Windows Server Local Backup Facts
- iv. Configuring Windows Server Backup for Online Backup (6:27)
- v. Windows Server Online Backup Facts
- vi. Back Up a Server
- vii. Practice Questions Section 3.1 (13 questions)

### b. **Restore from Backup**

- i. Restore from Backup (1:38)
- ii. Recovering User Data (3:42)
- iii. Performing a Bare Metal Recovery (BMR) (3:30)
- iv. Restore from Backups Facts
- v. Practice Questions Section 3.2 (3 questions)

### c. **Volume Shadow Copies**

- i. Volume Shadow Copies (2:25)
- ii. Configuring VSS (3:21)
- iii. Managing VSS Settings with VSSAdmin (2:07)
- iv. Volume Shadow Copy Facts
- v. Enable Shadow Copies
- vi. Restore Previous Version 1
- vii. Restore Previous Version 2



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

viii. Practice Questions Section 3.3 (11 questions)

d. **Boot Configuration Data (BCD) Store**

- i. BCD Store Overview (1:27)
- ii. Configuring the BCD Store (7:55)
- iii. System Recovery Facts
- iv. Advanced Boot Options
- v. Practice Questions Section 3.4 (4 questions)

IV. **ADVANCED DHCP**

a. **DHCP Overview**

- i. DHCP Overview (1:42)
- ii. Installing and Authorizing a DHCP Server (1:49)
- iii. DHCP Installation and Authorization Facts
- iv. Practice Questions Section 4.1 (5 questions)

b. **DHCP Scopes**

- i. DHCP Scopes (7:33)
- ii. Configuring IPv4 Scopes (14:22)
- iii. DHCP Scope Facts
- iv. DHCP Options Facts
- v. DHCP Policies Facts
- vi. DHCP Superscope Facts
- vii. Create a Superscope
- viii. Practice Questions Section 4.2 (11 questions)

c. **DHCP and IPv6**

- i. IPv6 Overview (3:59)
- ii. Implementing IPv6 (1:39)
- iii. IPv6 Facts
- iv. IPv6 Address Assignment Facts
- v. DHCPv6 Facts
- vi. Configure an IPv6 Scope
- vii. Practice Questions Section 4.3 (9 questions)



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

## d. DHCP High Availability

- i. DHCP High Availability (4:59)
- ii. DHCP Split Scopes (4:11)
- iii. Configure a Split Scope
- iv. DHCP Failover (6:18)
- v. Configure DHCP Failover 1
- vi. Configure DHCP Failover 2
- vii. DHCP Name Protection (1:35)
- viii. DHCP High Availability Facts
- ix. Practice Questions Section 4.4 (3 questions)

## e. IPAM Overview

- i. IPAM Basics (4:38)
- ii. Configuring IPAM Manually or Using GPO (9:56)
- iii. IPAM on Server 2012 R2 (11:01)
- iv. IPAM Facts
- v. Practice Questions Section 4.5 (7 questions)

## f. IPAM Configuration

- i. IPAM Configuration (3:59)
- ii. Managing IP Blocks and Ranges (15:01)
- iii. IPAM Configuration Facts
- iv. Practice Questions Section 4.6 (7 questions)

## g. IPAM Management

- i. IPAM Management (0:50)
- ii. Delegating IPAM Administration (2:41)
- iii. IPAM Administration Delegation Facts
- iv. Practice Questions Section 4.7 (2 questions)

## v. ADVANCED DNS

### a. DNS Security

- i. DNS Security (12:50)
- ii. Configuring DNSSEC (10:21)





# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

- iii. Configuring DNS Socket Pooling (2:20)
- iv. Configuring Cache Locking (1:19)
  - v. DNS Security Facts
- vi. Practice Questions Section 5.1 (10 questions)

## b. **Advanced DNS Settings**

- i. Configuring Advanced DNS Settings (4:33)
- ii. Using DNS Zone Statistics (2:46)
- iii. Advanced DNS Settings Facts
- iv. Configure DNS Advanced Settings
- v. Practice Questions Section 5.2 (8 questions)

## c. **GlobalNames Zones**

- i. GlobalNames Zones (2:03)
- ii. Creating a GlobalNames Zone (2:38)
- iii. GlobalNames Zone Facts
- iv. Configure a GlobalNames Zone
- v. Practice Questions Section 5.3 (5 questions)

## VI. **HYPERV**

### a. **Virtual Machine Management**

- i. Migrate Virtual Machines from Other Platforms (1:15)
- ii. Virtual Machine Management (2:30)
- iii. Managing Virtual Machines (7:10)
- iv. Virtual Machine Migration Facts
- v. Virtual Domain Controller Cloning Facts
- vi. Practice Questions Section 6.1 (12 questions)

### b. **HyperV High Availability**

- i. HyperV Replicas (1:38)
- ii. Configuring HyperV Replicas and VMs (12:30)
- iii. HyperV Replication Facts
- iv. HyperV Replica Configuration Facts
- v. HyperV Replication Failover Facts



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

- vi. Configure HyperV Replicas
- vii. Practice Questions Section 6.2 (6 questions)

## VII. HIGH AVAILABILITY

### a. Network Load Balancing

- i. Network Load Balancing Overview (3:53)
- ii. Configuring NLB Prerequisites and Installing NLB Nodes (7:30)
- iii. Network Load Balancing Facts
- iv. Network Load Balancing Configuration Facts
- v. Practice Questions Section 7.1 (4 questions)

### b. Network Load Balancing Management

- i. Network Load Balancing Management (5:19)
- ii. Managing Network Load Balancing (4:45)
- iii. Network Load Balancing Management Facts
- iv. Configure an NLB Cluster 1
- v. Configure an NLB Cluster 2
- vi. Practice Questions Section 7.2 (12 questions)

### c. Failover Clustering

- i. Failover Clustering Overview (10:51)
- ii. Creating a Failover Cluster (4:44)
- iii. Configuring Cluster Storage (2:25)
- iv. Failover Clusters on Server 2012 R2 (19:59)
- v. Configuring Failover Clusters on Server 2012 R2 (4:30)
- vi. Configuring Guest Clusters (17:02)
- vii. Deploying a No Name Cluster (5:47)
- viii. Failover Cluster Facts
- ix. Failover Cluster Configuration Facts
- x. Create a Failover Cluster
- xi. Configure Cluster Quorum Settings
- xii. Add Storage to a Cluster
- xiii. Practice Questions Section 7.3 (15 questions)



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

## d. Failover Cluster Management

- i. Failover Cluster Configuration (9:00)
- ii. Implementing ClusterAware Updating (2:52)
- iii. Restoring Singlenode or Cluster Configuration (1:19)
- iv. Failover Cluster Management
- v. MultiSite Failover Facts
- vi. ClusterAware Update Facts
- vii. Practice Questions Section 7.4 (4 questions)

## e. Failover Clustered Role Management

- i. Configuring Failover and Preference Settings (6:10)
- ii. Clustered Role Management Facts
- iii. Add a Failover Cluster Role
- iv. Configure Failover and Preference Settings
- v. Practice Questions Section 7.5 (8 questions)

## f. Failover Cluster with HyperV

- i. Virtual Machine Monitoring and Migrations (4:37)
- ii. Configuring Virtual Machine Monitoring (3:06)
- iii. Migrating Virtual Machines (11:35)
- iv. HyperV Failover Facts
- v. Migrate Virtual Machine Storage
- vi. Migrate a Virtual Machine
- vii. Practice Questions Section 7.6 (6 questions)

## VIII. ACTIVE DIRECTORY CERTIFICATE SERVICES

### a. Active Directory Certificate Services Overview

- i. Overview of Certificates (11:21)
- ii. Overview of Certificate Services (9:17)
- iii. Installing an Enterprise AD CS (5:42)
- iv. Certificate Facts
- v. AD CS Facts
- vi. AD CS Installation Facts



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

vii. Practice Questions Section 8.1 (7 questions)

**b. Certificate Management**

- i. Managing Certificates (3:22)
- ii. Certificate Management Facts
- iii. Manage Certificates
- iv. Practice Questions Section 8.2 (12 questions)

**c. Certificate Revocation**

- i. Certificate Revocation (5:07)
- ii. Configuring a CRL Distribution Point (2:29)
- iii. Configuring an Online Responder (3:36)
- iv. Certificate Revocation Facts
- v. Online Responder Facts
- vi. Manage Certificate Revocation
- vii. Practice Questions Section 8.3 (6 questions)

**d. Certificate Templates**

- i. Certificate Templates (4:24)
- ii. Using Certificate Templates (9:40)
- iii. Certificate Templates Facts
- iv. Certificate Template Settings Facts
- v. Modify Certificate Templates 1
- vi. Modify Certificate Templates 2
- vii. Practice Questions Section 8.4 (6 questions)

**e. Certificate Autoenrollment**

- i. Certificate Autoenrollment (0:49)
- ii. Configuring Certificate Autoenrollment (2:49)
- iii. Certificate Autoenrollments Facts
- iv. Configure Templates for Autoenrollment
- v. Enable Autoenrollment for the Domain
- vi. Create Certificates for Smart Cards
- vii. Require Smart Cards for Logon
- viii. Practice Questions Section 8.5 (5 questions)



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

## f. **Key Archival and Recovery**

- i. Key Archival and Recovery (3:03)
- ii. Creating and Managing Key Recovery Agents (3:49)
- iii. Configuring a CA for Key Archival (4:47)
- iv. Recovering a Key (3:49)
- v. Key Archival and Recovery Facts
- vi. Practice Questions Section 8.6 (7 questions)

## g. **Certificate Authority (CA) Management**

- i. Managing the CA (3:50)
- ii. Configuring Security Roles on the CA (2:02)
- iii. Limiting Security Roles on the CA (3:28)
- iv. Configuring Administrative Role Separation (1:36)
- v. CA Management Facts
- vi. Practice Questions Section 8.7 (6 questions)

## h. **CA Backup and Recovery**

- i. CA Backup and Recovery (0:51)
- ii. CA Backup and Recovery (2:26)
- iii. CA Backup and Recovery Facts
- iv. Practice Questions Section 8.8 (8 questions)

## IX. **ACTIVE DIRECTORY RIGHTS MANAGEMENT SERVICES (AD RMS)**

### a. **AD RMS Overview**

- i. AD RMS Overview (5:49) 9.1.2 AD RMS Facts
- ii. Practice Questions Section 9.1 (3 questions)
- iii. AD RMS Installation
- iv. AD RMS Installation (4:06) 9.2.2 Installing AD RMS (10:59)
- v. Configuring AD RMS Backup and Recovery (6:40)
- vi. Configuring the AD RMS Service Connection Point (SCP) (2:27)
- vii. AD RMS Installation Facts
- viii. Practice Questions Section 9.2 (9 questions)

### b. **AD RMS Client Deployments**



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

- i. Managing AD RMS Client Deployments (10:02)
- ii. AD RMS Client Deployments Facts
- iii. Practice Questions Section 9.3 (7 questions)

## c. **AD RMS Templates**

- i. AD RMS Templates (1:52)
- ii. Using AD RMS Templates (15:12)
- iii. AD RMS Templates Facts
- iv. AD RMS Certificate Facts
- v. Configure a Distributed Rights Policy Template
- vi. Configure a User Exclusion
- vii. Practice Questions Section 9.4 (4 questions)

## X. **ACTIVE DIRECTORY FEDERATION SERVICES (AD FS)**

### a. **AD FS Overview**

- i. AD FS Overview (4:04)
- ii. AD FS Facts
- iii. AD FS Terminology Facts
- iv. Practice Questions Section 10.1 (3 questions)

### b. **AD FS Certificates**

- i. AD FS Certificates (1:33)
- ii. Managing AD FS Certificates (11:35)
- iii. AD FS Certificates Facts
- iv. Practice Questions Section 10.2 (3 questions)

### c. **Resource Partner**

- i. Resource Partner (5:08)
- ii. Configuring the Resource Partner (20:38)
- iii. AD FS Installation Facts
- iv. Resource Partner Facts
- v. Resource Partner Configuration Facts
- vi. Configuring Multifactor Authentication (5:48)
- vii. Configuring Workplace Join (19:15)



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

---

TI

- viii. Multifactor Authentication Facts
- ix. Practice Questions Section 10.3 (7 questions)
- d. **Accounts Partner**
  - i. Configuring the Accounts Partner (8:21)
  - ii. Accounts Partner Facts
  - iii. Accounts Partner Configuration Facts
  - iv. Practice Questions Section 10.4 (6 questions)
- e. **AD FS Proxies**
  - i. AD FS Proxies (1:48)
  - ii. Configuring AD FS Proxies (9:00)
  - iii. AD FS Proxy Facts
  - iv. Practice Questions Section 10.5 (5 questions)
- f. **AD FS and Cloud Services**
  - i. AD FS and Cloud Services (1:25)
  - ii. AD FS and Cloud Services Facts
  - iii. Practice Questions Section 10.6 (5 questions)
- g. **AD FS and AD RMS**
  - i. AD FS and AD RMS (2:49)
  - ii. Configuring Trusted User Domains (2:51)
  - iii. Configure a Trusted User Domain
  - iv. Configuring Trusted Publishing Domains (3:17)
  - v. Configure a Trusted Publishing Domain
  - vi. Managing Federated Identity Support (4:10)
  - vii. AD FS and AD RMS Facts
  - viii. Practice Questions Section 10.7 (5 questions)



# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

TI

## POLÍTICAS DE PAGO

- Precios en **Pesos Mexicanos** - Excepto casos que se indique en otra moneda de manera expresa
- **LIQUIDACIÓN TOTAL** - Aplica previa al inicio del evento
- **DESCUENTO POR PRONTO PAGO** - Aplica liquidando el total de la inversión hasta 5 días hábiles previos al evento
- **POLÍTICAS DE PRECIOS Y DESCUENTOS** - Sujetas a términos y condiciones de IMECAF
- **FINANCIAMIENTO** - NO aplica

## MÉTODOS DE PAGO

### TARJETA DE CRÉDITO / DÉBITO

- VISA y MASTER CARD - No requiere presentación física
- AMERICAN EXPRESS - Si no es por PayPal, requiere presentación física

### MESES SIN INTERESES

- 3, 6, 9 Y 12 MSI - Tarjetas Banamex
- PayPal (Según las opciones disponibles en la plataforma)

### TRANSFERENCIA INTERBANCARIA

- BANAMEX - Clabe 002180414600184021

### DEPÓSITO BANCARIO

- BANAMEX - Cuenta 18402
- Sucursal 4146

### TRANSFERENCIA O DEPÓSITO REQUIERE REFERENCIA

- Colocar cualquiera de los siguientes datos como referencia:
- Nombre, razón social, RFC o número de factura

### BENEFICIARIO

- IMECAF México, SC



**IMECAF®**

Arquímedes 130  
Dpcho. 205  
Col. Polanco,  
CDMX 11570

TEL. 55 1085 1515  
800 236 0800  
info@imecaf.com

[www.imecaf.com](http://www.imecaf.com)





# CURSO DE WINDOWS SERVER - SERVICIOS AVANZADOS

TI

## POLÍTICAS DE CONFIRMACIÓN Y CANCELACIÓN

### PENALIZACIONES

**NO APLICA** - Notificando hasta 6 días hábiles previos al evento

- **20%** - Notificando con menos de 6 días hábiles previos al evento - Se podrá elegir otro Curso pagando la diferencia. En caso de reincidencia, aplica penalización del **100%**
- **100%** - NO SHOW (No Asistencia) o notificando con menos de 72 hrs. hábiles previas al evento
- **CANCELACIONES CON TARJETA DE CRÉDITO / DÉBITO** - Se les descontarán las comisiones efectuadas por el banco emisor (incluyendo la opción de meses sin intereses, en su caso)

## CONFIRMACIÓN OFICIAL

IMECAF notificará **5 días hábiles previos** al evento vía e-mail y/o teléfono del contacto proporcionado por la empresa contratante y ésta deberá confirmar por el mismo medio su asistencia.

Se sugiere realizar la gestión de **viáticos**, en su caso, una vez recibida | IMECAF no se hace responsable por gastos incurridos en este rubro.

IMECAF se reserva la posibilidad de cambios sin previo aviso por causas ajenas a su voluntad - Cursos sujetos a **QUÓRUM MÍNIMO**

© IMECAF México S.C. Todos los derechos reservados

