



VERONAINFORMATICA  
SOLUZIONI INFORMATICHE

CORSO 20741

Planning and Implementing  
an IPv4 Network in Windows 2016

## **CORSO 20741**

### **Planning ed Implementing IPv4 Network in Windows 2016**

Questo corso intende trasmettere le competenze fondamentali in ambito networking per gestire il deployment e il supporto di Windows Server 2016. Nel corso vengono trattati i fondamenti di IP, le tecnologie per il remote access e altri argomenti più avanzati quali il software defined networking.

Questo corso aiuta gli allievi nella preparazione dell' [esame di certificazione Microsoft 70-741](#)

**Durata del corso: 4 giorni**

#### **Destinatari del corso:**

- Professionisti IT e amministratori di Windows Server che desiderano aggiornare le loro conoscenze e competenze relativamente alla tecnologia di networking di Windows Server 2016;
- Professionisti IT con conoscenze informatiche generali, che stanno cercando di acquisire conoscenze su Windows Server, in particolare sulle tecnologie di rete in Windows Server 2016;
- Professionisti IT che desiderano ottenere la certificazione Microsoft 70-741

#### **Obiettivi del corso:**

Al termine del corso i partecipanti saranno in grado di:

- Plan and implement an IPv4 network.
- Implement Dynamic Host Configuration Protocol (DHCP).
- Implement IPv6.
- Implement Domain Name System (DNS).
- Implement and manage IP address management (IPAM).
- Plan for remote access.
- Implement DirectAccess.
- Implement virtual private networks (VPNs).
- Implement networking for branch offices.
- Configure advanced networking features.
- Implement software defined networking.

## **Programma del corso 20741:**

### **MODULE 1: PLANNING AND IMPLEMENTING AN IPv4 NETWORK**

- Planning IPv4 addressing
- Configuring an IPv4 host
- Managing and troubleshooting IPv4 network connectivity

### **MODULE 2: IMPLEMENTING DHCP**

- Overview of the DHCP server role
- Deploying DHCP
- Managing and troubleshooting DHCP

### **MODULE 3: IMPLEMENTING IPv6**

- Overview of IPv6 addressing
- Configuring an IPv6 host
- Implementing IPv6 and IPv4 coexistence
- Transitioning from IPv4 to IPv6

### **MODULE 4: IMPLEMENTING DNS**

- Implementing DNS servers
- Configuring zones in DNS
- Configuring name resolution between DNS zones
- Configuring DNS integration with Active Directory Domain Services (AD DS)
- Configuring advanced DNS settings

### **MODULE 5: IMPLEMENTING AND MANAGING IPAM**

- IPAM overview
- Deploying IPAM
- Managing IP address spaces by using IPAM

### **MODULE 6: REMOTE ACCESS IN WINDOWS SERVER 2016**

- Remote access overview
- Implementing Web Application Proxy

## **MODULE 7: IMPLEMENTING DIRECTACCESS**

- Overview of DirectAccess
- Implementing DirectAccess by using the Getting Started Wizard
- Implementing and managing an advanced DirectAccess infrastructure

## **MODULE 8: IMPLEMENTING VPNS**

- Planning VPNs
- Implementing VPNs

## **MODULE 9: IMPLEMENTING NETWORKING FOR BRANCH OFFICES**

- Networking features and considerations for branch offices
- Implementing Distributed File System (DFS) for branch offices
- Implementing BranchCache for branch offices

## **MODULE 10: CONFIGURING ADVANCED NETWORKING FEATURES**

- Overview of high performance networking features
- Configuring advanced Hyper-V networking features

## **MODULE 11: IMPLEMENTING SOFTWARE DEFINED NETWORKING**

- Overview of software defined networking
- Implementing network virtualization
- Implementing Network Controller

## **ARGOMENTI ESAME 20741**

Argomenti trattati nell'esame di certificazione 20741:

Implement Domain Name System (DNS) (15-20%)

Implement DHCP and IPAM (25-30%)

Implement Network Connectivity and Remote Access Solutions (20-25%)

Implement Core and Distributed Network Solutions (15-20%)

Implement an Advanced Network Infrastructure (15-20%)