



Vos contacts :  
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## MS 6435 – Conception d'une infrastructure réseaux Windows Server 2008

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**Objectif** This five-day course will provide students with an understanding of how to design a Windows Server 2008 Network Infrastructure that meets business and technical requirements for network services.

**Pré requis** Before attending this course, students must have: Active Directory Technology Specialist level knowledge and concepts, Network Infrastructure Technology Specialist level knowledge and experience, Applications Infrastructure Technology Specialist level knowledge and experience, Windows Vista TS level of knowledge and experience, Intermediate understanding of networking concepts such as TCP/IP, name resolution, and connection methods, Intermediate understanding of security best practices for authentication and file permissions, Intermediate understanding of server and network hardware.

**Durée** 5 jours

### Contenu

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#### Module 1: Overview of Network Infrastructure

- Preparing for Network Infrastructure Design
- Designing the Network Topology
- Designing Network Infrastructure for Virtualization
- Designing a Change Management Structure for a Network

#### Module 2: Designing Network Security Overview of Network Security Design

- Creating a Network Security Plan
- Identifying Threats to Network Security
- Analyzing Security Risks
- Defense-in-Depth Model Overview

#### Module 3: Designing IP

- Designing an IPv4 Addressing Scheme
- Designing an IPv6 Addressing Scheme
- Designing DHCP Implementation
- Designing DHCP Configuration Options

#### Module 4: Designing Routing and Switching

- Preparing for Designing a Network Routing Topology
- Selecting Network Devices
- Designing Internet Connectivity and Perimeter Networks
- Designing Routing Communications
- Evaluating Network Performance

#### Module 5: Designing Security for Internal Networks

- Designing Windows Firewall Implementation
- Overview of IPsec
- Designing IPsec Implementation

#### Module 6: Designing Name Resolution

- Collecting Information for a Name Resolution Design
- Designing a DNS Server Strategy
- Designing a DNS Namespace
- Designing DNS Zone Implementation
- Designing Zone Replication and Delegation

#### Module 7: Designing Advanced Name Resolution

- Optimizing DNS Queries
- Designing DNS for High Availability
- Designing a WINS Name Resolution Strategy

#### Module 8: Planning and Deploying the Application Virtualization Management System

- Gathering Data for Designing Network Access Solutions
- Securing and Controlling Network Access
- Designing Remote Access Services
- Designing RADIUS Authentication with Network Policy Services
- Designing Wireless Access

#### Module 9: Designing Network Access

- Designing the NAP Platform Architecture
- NAP Architecture
- NAP Enforcement
- Designing NAP Policy
- Designing NAP Enforcement and Remediation

#### Module 10: Designing Operating System Deployment and Maintenance

- Determining Operating System Deployment Requirements
- Deploying an Operating System by Using WDS
- Planning for the Creation and Modification of Images
- Designing Multicast Transmission of Images

#### Module 11: Designing File Services and DFS in Windows Server 2008

- Designing File Services
- Designing DFS
- Designing the FSRM Configuration

#### Module 12: Designing High Availability in Windows Server 2008

- Overview of High Availability
- Designing Network Load Balancing for High Availability
- Designing Failover Clustering for High Availability
- Designing Geographically Dispersed Failover Clusters

#### Module 13: Designing Print Services in Windows Server 2008

- Overview of a Print Services Design
- Windows Server 2008 Printing Features
- Designing Print Services