

# Kurs-Dokumentation



## Zentrum für Informatik ZFI AG

# Designing a Windows Server 2008 Network Infrastructure (WS8N-0411) -IT Ausbildung nach Mass

<http://www.zfi.ch/WS8N-0411>

Weitere Infos finden Sie unter [www.zfi.ch](http://www.zfi.ch) oder via Adresse:

Zentrum für Informatik ZFI AG  
Zentralsekretariat  
Technoparkstrasse 1  
CH-8005 Zürich  
Telefon: 044 732 40 00  
Telefax: 044 732 40 09

Zürich, Basel, Bern, Zürich, Schweiz

<b>Titel</b>	<b>Designing a Windows Server 2008 Network Infrastructure</b>
<b>Untertitel</b>	<b>richtige Planung der Netzwerk-Infrastruktur</b>
<b>Einleitung</b>	<b>Microsoft Windows Server 2008 ist das bis jetzt flexibelste, robusteste Windows Server-Betriebssystem. Mit neuen Technologien und Merkmalen wie Server Core, PowerShell, Windows Deployment Services und erweiterten Netzwerk- sowie Clustering-Funktionen steht Ihnen mit Windows Server 2008 eine besonders vielseitige, zuverlässige Plattform für alle Ihre Einsatzbereiche und Anwendungsanforderungen zur Verfügung.</b>
<b>Ihr Nutzen</b>	<b>After completing this course, students will be able to: Describe key components of network infrastructure design. Describe how to design a secure network. Design a plan for allocating IP addresses to workstations and servers. Design a network topology. Describe the internal considerations for network security and how they can be addressed. Design an appropriate name resolution system that incorporates Domain Name System (DNS). Optimize a name resolution system that incorporates DNS and Windows Internet Name Service (WINS). Design a solution for network access. Design a Network Access Protection (NAP) solution. Design a solution for operating system deployment and maintenance. Design the deployment of file services. Design print services in Windows Server 2008. Design high availability for applications and services.</b>
<b>Voraussetzungen</b>	<b>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. Experience with Windows operating systems such as Windows XP, Windows Server 2003, and Windows Vista. 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.</b>
<b>Teilnehmerkreis</b>	<b>The primary audience for this course is IT professionals (including Windows 2000, Windows Server 2003 enterprise administrators) interested in becoming a Windows Server Enterprise Administrator (who focuses on network solutions).</b>
<b>Unterlagen</b>	<b>Original Microsoft Kursunterlagen</b>
<b>Folgekurse</b>	
<b>Inhalt</b>	<ul style="list-style-type: none"> <li>- Overview of Network Infrastructure Design</li> <li>- Preparing for Network Infrastructure Design</li> <li>- Designing the Network Topology</li> <li>- Designing Network Infrastructure for Virtualization</li> <li>- Designing a Change Management Structure for a Network</li> <li>- Lab: Designing Network Infrastructure in Windows Server 2008</li>   <li>- Designing Network Security</li> <li>- Overview of Network Security Design</li> <li>- Creating a Security Plan</li> </ul>

- Identifying Threats to Network Security
- Analyzing Security Risks
- The Defense-in-Depth Model
- Lab: Designing a Network Security Plan
  
- Designing IP Addressing
- Designing an IPv4 Addressing Scheme
- Designing an IPv6 Addressing Scheme
- Designing DHCP Implementation
- Designing DHCP Configuration Options
- Lab: Designing IP Addressing in Windows Server 2008
  
- 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
- Lab: Designing a Network Routing Topology
  
- Designing Security for Internal Networks
- Designing Windows Firewall Implementation
- Overview of IPSec
- Designing IPSec Implementation
- Lab: Designing a Secure Internal Network
  
- 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
- Lab: Designing a Name Resolution Strategy in Windows Server 2008
  
- Designing Advanced Name Resolution
- Optimizing DNS Queries
- Designing DNS for High Availability
- Designing a WINS Name Resolution Strategy
- Lab: Designing a Name Resolution Strategy in Windows Server 2008
  
- 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
- Lab: Designing network Access Solutions
  
- Designing Network Access Protection
- Designing the NAP Platform Architecture
- Network Policy Server Component Design
- Designing NAP Enforcement Point and Client Component Requirements
- IPSec Enforcement for NAP
- Lab: Designing Network Access Protection
  
- Designing Operating System Deployment and Maintenance
- Determining Operating System Deployment Requirements
- Deploying and Operating System by Using WDS
- Planning for the Creation and Modification of Images
- Designing Multicast Transmissions of Images
- Lab: Designing Operating System Deployment and Maintenance
  
- Designing File Services and DFS in Windows Server 2008
- Designing File Services
- Designing DFS
- Designing the FSRM Configuration
- Lab: Designing File Services and DFS in Windows Server 2008
  
- Designing Print Services in Windows Server 2008
- Overview of a Print Services Design
- Designing Print Services
- Lab: Designing Shared Resources in Windows Server 2008
  
- 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
- Lab: Designing High Availability in Windows Server 2008

**Beitrag**

Der Teilnehmerbeitrag versteht sich rein netto. Das ZFI ist (gemäss MwSt-Gesetz) nicht Mehrwertsteuerpflichtig und erhebt somit keine MwSt. Bei länger als einen Monat dauernden Lehrgängen ist die Zahlung des Teilnehmerbeitrages in mehreren Raten möglich (pro rata temporis).

# Bildungsweg Microsoft Server 2008

## Microsoft Windows Server 2008

