

# Lehrgang-Dokumentation



**Zentrum für Informatik ZFI AG**

## **MCITP Windows Server 2008 Administrator SA (ITAD-0112) -IT Ausbildung nach Mass**

<http://www.zfi.ch/ITAD-0112>

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<b>Titel</b>	<b>MCITP Windows Server 2008 Administrator SA</b>
<b>Untertitel</b>	<b>Lehrgang zum Server Administrator</b>
<b>Einleitung</b>	<p>Die Bedeutung, die Windows Server 2008 im heutigen Markt hat, deutet darauf hin, dass die Nachfrage nach entsprechenden IT-Fachkenntnissen in den kommenden Jahren anhalten wird. Eine Zertifizierung für Windows Server 2008 ist eine wertvolle Demonstration Ihrer Kenntnisse, die das Vertrauen Ihrer Vorgesetzten, potenziellen Arbeitgeber oder Ihres Teams untermauern wird - und Ihnen die Sicherheit bei der Evaluierung und Bereitstellung von Windows Server 2008 bietet. Die Zertifizierungen zum Microsoft Certified IT Professional (MCITP) erlauben es IT-Fachleuten, sich auf spezifische Technologien zu konzentrieren und sich von Wettbewerbern zu unterscheiden, indem sie fundierte Kenntnisse und Fertigkeiten im Bereich ihrer Spezialisierungen unter Beweis stellen. Microsoft Certified IT Professionals sind in der Lage, eine bestimmte Microsoft-Technologie zu implementieren, konsistent mit ihr zu arbeiten sowie auftretende Probleme zu lösen. Dies ist der zentrale Lehrgang für künftige Microsoft Windows Server 2008 System-Administratoren. Prüfungsvorbereitungs-Workshops sind Bestandteil dieses Lehrgangs. Dadurch werden die Teilnehmenden optimiert auf die Prometric-Prüfungen vorbereitet ("Prüfungs-Drill"). Diese Prüfungen können am ZFI absolviert werden (das ZFI ist offizielles Prometric Testing Center). Die Prüfungs-Gebühr ist im Lehrgangspreis nicht inbegriffen und wird separat durch Prometric verrechnet.</p>
<b>Ihr Nutzen</b>	<p>Der Wert einer Zertifizierung für Personen:1) Erhöhte Arbeitsmarktchancen. Eine Microsoft Certified Professional-Zertifizierung steht für fundiertes Wissen zu Microsoft-Produkten und -Technologien. Damit können Sie Ihren Wissensstand gegenüber bestehenden und potenziellen Arbeitgebern belegen.2) Grösseres Vertrauen. Zertifiziertes Wissen wird von Arbeitgebern und Kunden mit erhöhtem Vertrauen in die Fachkompetenz honoriert ? besonders, wenn man noch nicht allzu lang in dem Markt tätig ist.3) Effizienteres Zeitmanagement. Microsoft-Produkte und -Technologien können durch einen Kurs und eine Zertifizierung erschlossen werden. Sie vermitteln zuverlässig jenen Informationshintergrund, der dann bei der Arbeit mehr Zeit für das Wesentliche oder kreativen Spielraum schafft.4) Erhöhte Produktivität. Der professionelle Umgang mit Microsoft-Produkten und -Technologien ermöglicht Ihnen und den Unternehmen, für die Sie arbeiten, eine höhere Produktivität.5) Last but not least: höheres Gehalt.</p>
<b>Voraussetzungen</b>	<p>- gute Kenntnisse der Netzwerk-Technik, wie Ethernet, TCP/IP, DHCP, IP-Adressierung, Subnet-Masken und Domain Name System (DNS)-Erfahrung in der Installation, Konfiguration und Administration von Desktop-Betriebssystemen wie Windows XP Professional, Windows Vista und/oder Windows 7- gute Deutsch- und gute Englisch-Kenntnisse</p>
<b>Teilnehmerkreis</b>	<p>Dieser Kurs richtet sich an IT-Profis, welche noch keine Microsoft-Zertifizierung für dieses Fachgebiet besitzen.</p>
<b>Unterlagen</b>	Original-Microsoft-Kursunterlagen
<b>Folgekurse</b>	
<b>Inhalt</b>	<p>Microsoft-Kurs 6420/WS8F:</p> <ul style="list-style-type: none"> <li>- Fundamentals of Networking Infrastructures</li> <li>- Network Communication Standards</li> </ul>

- Physical Network Infrastructure
- Logical Network Organization
- Overview of Active Directory
- Server Roles
  
- IT Professionals in the Enterprise
- IT Professional Roles
- IT Management and Processes
- Professional Development for IT Professionals
  
- TCP/IPv4 Fundamentals
- Overview of the TCP/IP Protocol Suite
- Overview of TCP/IP Addressing
- Name Resolution
- Dynamic IP Addressing
- TCP/IPv4 Tools
  
- Communication Technologies Fundamentals
- Packet Delivery Methods
- Network Content Types
  
- Creating IPv4 Address Spaces
- Overview of IP Communication
- Sub netting for Complex Networks
  
- IPv6 Fundamentals
- Introduction to IPv6
- Unicast Ipv6 Addresses
- Configuring IPv6
  
- Fundamentals of Administering Windows Server 2008
- Windows Server 2008 Administrative Tools
- Monitoring Performance
- Monitoring Events
- Using Remote Desktop for Administration
- Configuring security for Server Administration
  
- Security Fundamentals
- Defense in Depth
- Securing Access to Web Content
- Securing Access to Files
  
- Fundamentals of Securing Network Communication

- Public Key Infrastructure
  - Using Certificates
  
  - Windows Firewall and Caching Fundamentals
  - Overview of Perimeter Security
  - Windows Firewall Overview
  - Creating Windows Firewall Rules
  - Monitoring and Troubleshooting Windows Firewall
  - Demonstration: Monitoring Windows Firewall
  
  - Remote Access Fundamentals
  - Remote Access Overview
  - RADIUS Overview
  - Network Policy Server
  - Troubleshooting Remote Access
  
  - Routing Fundamentals
  - Routing Fundamentals
  - What is a Router?
  - Configuring RRAS as a Router
  - Quality of Services
  
  - Network Load Balancing Fundamentals
  - Network Load Balancing Fundamentals
  - Server Availability and Scalability Overview
  - Windows Network Load Balancing
  - Configuring Windows Network Load Balancing
  
  - Configuring Print Resources and Printing Pools
  - Configuring Print Resources and Printing Pools
  - Printing Overview
  - Configuring Network Printers
  - Using Print Management
  - Managing Printers
  - Troubleshooting Network Printing
  
  - Server Virtualization Overview
  - Server Virtualization Overview
  - Creating a Virtual Environment
- Microsoft-Kurs 6419/WS8K:**
- Introduction to Administrative Tasks in Windows Server 2008
  - EnvironmentServer RolesOverview of Active DirectoryUsing Windows

**Server 2008 Administrative Tools Using Remote Desktop for Administration**

**Creating Active Directory Domain Services User and Computer Objects Managing User Accounts Creating Computer Accounts Automating AD DS Object Management Using Queries to Locate Objects in AD DS**

**Creating Groups and Organizational Units Introduction to Groups Managing Groups Creating Organizational Units**

**Managing Access to Resources in Active Directory Domain Services Managing Access Overview Assigning Permissions to Shared Resources Managing NTFS File and Folder Permissions Determining Effective Permission**

**Configuring Active Directory Objects and Trusts Delegating Administrative Access to AD DS Objects Configuring AD DS Trusts**

**Creating and Configuring Group Policy Overview of Group Policy Configuring the Scope of Group Policy Objects Evaluating the Application of Group Policy Objects Managing Group Policy Objects Delegating Administrative Control of Group Policy**

**Configuring User Environments Using Group Policy Configuring Group Policy Settings Configuring Scripts and Folder Redirection Using Group Policy Configuring Administrative Templates Configuring Group Policy Preferences Deploying Software Using Group Policy Introduction to Group Policy Troubleshooting Troubleshooting Group Policy Application Troubleshooting Group Policy Settings**

**Implementing Security Using Group Policy Configuring Security Policies Implementing Fine-Grained Password Policies Restricting Group Membership and Access to Software Managing Security Using Security Templates**

**Configuring Server Security Compliance Securing a Windows Infrastructure Configuring an Audit Policy Overview of Windows Server Update Services Managing WSUS Planning for Security Update Management**

**Configuring and Managing Storage Technologies Windows Server 2008 Storage Management Overview Managing Storage Using File Server Resource Manager Configuring Quota Management Implementing File Screening Managing Storage Reports Troubleshooting Storage Issues**

**Configuring and Managing Distributed File System DFS Overview Configuring DFS Namespaces Configuring DFS Replication**

**Configuring Network Access Protection Overview of Network Access Protection How NAP Works Configuring NAP Monitoring and**

**Troubleshooting NAP**

**Configuring Availability of Network Resources  
Configuring Shadow Copies  
Providing Server and Service Availability**

**Monitoring and Maintaining Windows Server 2008 Servers  
Planning Monitoring Tasks  
Calculating a Server Baseline  
Measuring Performance Objects  
Analyzing key performance counters  
Selecting Appropriate Monitoring Tools  
Planning Notification Methods  
Overview of Windows Server 2008 Maintenance Tasks  
Automating Windows Server 2008 Maintenance**

**Managing Windows Server 2008 Backup and Restore  
Planning Backups with Windows Server 2008  
Planning Backup Policy on Windows Server 2008  
Planning a Server Restore Policy  
Planning an EFS Restore Policy  
Verifying Restored Data**

**Microsoft-Kurs 6425/WS80:**

- Installing Active Directory Domain Services
- Installing Active Directory Domain Services
- Deploying Read-Only Domain Controllers
- Configuring AD DS Domain Controller Role
- Lab: Implementing Read-Only Domain Controllers
  
- Configuring DNS for AD DS
- Overview of Active Directory Domain Services and DNS Integration
- Configuring Active Directory Integrated Zones
- Configuring Read Only DNS
- Lab: Configuring AD DS and DNS Integration
  
- Configuring Active Directory Objects and Trusts
- Configuring Active Directory Objects
- Automating AD DS Object Management
- Delegating Administrative Access to AD DS Objects
- Configuring AD DS Trusts
- Lab: Configuring Active Directory Objects and Trusts
  
- Configuring Active Directory Sites and Replication
- Overview of AD DS Replication
- Configuring Active Directory Domain Services Sites
- Configuring and Monitoring AD DS Replication
- Lab: Configuring Active Directory Sites and Replication
  
- Creating and Configuring Group Policies
- Overview of Group Policies

- **Configuring the Scope of Group Policy Objects**
- **Evaluating the Application of Group Policy Objects**
- **Managing Group Policy Objects**
- **Delegating Administrative Control of Group Policies**
- **Lab: Creating and Configuring GPOs**
  
- **Configuring User Environments Using Group Policies**
- **Configuring Group Policy Settings**
- **Configuring Scripts and Folder Redirection Using Group Policies**
- **Configuring Administrative Templates**
- **Deploying Software Using Group Policy**
- **Lab: Configuring user Environments Using Group Policies**
  
- **Implementing Security Using Group Policies**
- **Configuring Security Policies**
- **Implementing Fine-Grained Password Policies**
- **Restricting Group Membership and Access to Software**
- **Managing Security Using Security Templates**
- **Lab: Implementing Security by Using Group Policies**
  
- **Implementing an Active Directory Domain Services Monitoring Plan**
- **Monitoring Active Directory Domain Services Using Event Viewer**
- **Monitoring Active Directory Domain Servers by Using Reliability and Performance Monitor**
- **Configuring Active Directory Domain Services Auditing**
- **Lab: monitoring Active Directory Domain Services**
  
- **Implementing an Active Directory Domain Services Maintenance Plan**
- **Maintaining the AD DS Domain Controllers**
- **Backing Up Active Directory Domain Services**
- **Restoring Active Directory Domain Services**
- **Lab: Implementing an Active Directory Domain Services Maintenance Plan**
  
- **Troubleshooting**
- **Troubleshooting Active Directory Domain Services**
- **Troubleshooting DNS Integration with AD DS**
- **Troubleshooting AD DS Replication**
- **Lab: Troubleshooting Active Directory, DNS, and Replication Issues**
  
- **Troubleshooting Group Policy Issues**
- **Introduction to Group Policy Troubleshooting**
- **Troubleshooting Group Policy Application**
- **Troubleshooting Group Policy Settings**
- **Lab: Troubleshooting Group Policy Issues**

- Implementing an Active Directory Domain services Infrastructure
- Overview of the AD DS Deployment
- Lab: Deploying Active Directory Domain Services

**Microsoft-Kurs 6426/WS8I:**

- Exploring Identity and Access Solutions
- Overview of Identity and Access Management
- Active Directory Server Roles in Identity and Access Management
- Identity Lifecycle Manager
- Lab: Exploring Identity and Access Solutions 2008

- Configuring Active Directory Certificate Services
- Overview of Public Key Infrastructure
- Deploying a Certification Authority Hierarchy
- Installing Active Directory Certificate Services
- Managing a Certification Authority
- Lab: Configuring Active Directory Certificate Services

- Deploying and Managing Certificates
- Deploying Certificates by Using AD CS
- Deploying Certificates by Using Auto enrollment
- Revoking Certificate Templates
- Configuring Certificate Recovery
- Lab: Deploying and Managing Certificates

- Configuring Active Directory Lightweight Directory Services
- Installing and Configuring AD LDS
- Creating AD LDS Partitions and Instances
- Configuring AD LDS Replication Discussions about Exercise 1 - 3 results

- Configuring Active Directory Federation Services
- Overview of AD FS
- AD FS Deployment Scenarios
- Deploying AD FS
- Implementing AD FS Claims
- Lab: Configuring AD FS

- Configuring Active Directory Rights Management Services
- Overview of AD RMS
- Installing and Configuring AD RMS Server Components
- Administering AD RMS

- Implementing AD RMS Trust Policies
- LAB: Configuring Active Directory Rights Management Services

- Maintenance of Access Management Solutions
- Support for AD CS
- Maintenance of AD LDS
- Long-term support for AD FS
- Preservation of AD RMS
- Lab: Maintaining Access Management Solutions

- Troubleshooting Identity and Access Solutions
- Troubleshooting AD CS
- Troubleshooting AD LDS
- Troubleshooting AD FS
- Troubleshooting AD RMS
- Lab: Troubleshooting Active Directory Server Roles

#### Microsoft-Kurs 6421/WS8T:

- Installing and Configuring Servers
- Installing Windows Server 2008
- Managing Server Roles and Features
- Overview of the Server Core Installation Option
- Lab: Installing and Configuring Servers and Server Roles

- Configuring and Troubleshooting DNS
- Installing the DNS Server Role
- Configuring the DNS Server Role
- Configuring DNS Zones
- Configuring DNS Zone Transfers
- Managing and Troubleshooting DNS
- Lab: Configuring and Verifying a DNS Solution

- Configuring and Managing WINS
- Installing the Windows Internet Name Service
- Managing the WINS Server
- Configuring WINS Replication
- Migrating from WINS to DNS
- Lab: Configuring a WINS Infrastructure

- Configuring and Troubleshooting DHCP
- Overview of the DHCP Server Role
- Configuring DHCP Scopes and Options
- Managing a DHCP Database
- Monitoring and Troubleshooting DHCP

- **Securing DHCP**
- **Lab: Configuring and Troubleshooting the DHCP Server Role**
  
- **Configuring and Troubleshooting IPv6 TCP/IP**
- **Overview of IPv6**
- **Coexistence with IPv6**
- **IPv6 Tunneling Technologies**
- **Transitioning from IPv4 to IPv6**
- **Troubleshooting IPv6**
- **Lab A: Configuring an ISATAP Router**
- **Lab B: Converting the Network**
  
- **Configuring and Troubleshooting Routing and Remote Access**
- **Configuring Network Access**
- **Configuring VPN Access**
- **Overview of Network Policies**
- **Overview of the Connection Manager Administration Kit**
- **Troubleshooting Routing and Remote Access**
- **Lab: Configuring and Managing Network Access**
  
- **Installing, Configuring, and Troubleshooting the Network Policy Server Role Service**
- **Installing and Configuring a Network Policy Server**
- **Configuring RADIUS Clients and Servers**
- **NPS Authentication Methods**
- **Monitoring and Troubleshooting a Network Policy Server**
- **Lab: Configuring and Managing Network Policy Server**
  
- **Configuring Network Access Protection**
- **Overview of Network Access Protection**
- **How NAP Works**
- **Configuring NAP**
- **Monitoring and Troubleshooting NAP**
- **Lab: Configuring NAP for DHCP and VPN**
  
- **Configuring IPsec**
- **Overview of IPsec**
- **Configuring Connection Security Rules**
- **Configuring IPsec NAP Enforcement**
- **Lab: Configuring IPsec NAP Enforcement**
  
- **Monitoring and Troubleshooting IPsec**
- **Monitoring IPsec Activity**
- **Troubleshooting IPsec**
- **Lab: Monitoring and Troubleshooting**

- IPsec Configuring and Managing Distributed File System
- DFS Overview
- Configuring DFS Namespaces
- Configuring DFS Replication
- Lab: Configuring DFS
  
- Configuring and Managing Storage Technologies
- Overview of Windows Server 2008 Storage Management
- Managing Storage Using File Server Resource Manager
- Configuring Quota Management
- Implementing File Screening
- Managing Storage Reports
- Lab: Configuring and Managing Storage Technologies
  
- Configuring Availability of Network Resources and Content
- Backing Up Data
- Configuring Shadow Copies
- Providing Server and Service Availability
- Lab: Configuring Availability of Network Resources
  
- Configuring Server Security Compliance
- Securing a Windows Infrastructure
- Using Security Templates to Secure Servers
- Configuring an Audit Policy
- Overview of Windows Server Update Services
- Managing WSUS
- Lab: Configuring and Managing Security and Security Update Compliance

**Microsoft-Kurs 6433/WS8Y:**

- Planning Server Deployment and Upgrade
- Developing a Deployment Strategy
- Virtualization Considerations
- Selecting an Automation Strategy
- Implementing an Automation Strategy

**Planning Server Management and Delegated Administration**  
Server Management Tools  
Decentralizing Systems Administration

**Planning Network Addressing and Name Resolution**  
Provisioning IPv4 Addresses on Enterprise Networks  
Provisioning IPv6 Addresses on Enterprise Networks  
Transitioning to IPv6  
Provisioning DNS Services on Enterprise Networks

**Planning and Provisioning Active Directory Domain Services**  
Deploying Domain Controllers in Multi-Site Organizations  
Planning Administrative

**and Management Structures for AD DS  
Planning a Maintenance Strategy  
for AD DS  
Planning a Backup and Restore Strategy for AD DS**

**Planning Group Policy Strategy  
Planning Group Policy Settings  
Planning Group Policy Assignment  
Planning the Management of Group Policy Objects**

**Planning Active Directory Certificate Services  
Enterprise PKI Deployment and Administration  
Managing Certificate Templates  
Planning Certificate Enrollment and Revocation**

**Planning and Provisioning Application Servers  
Planning and Provisioning Web Services  
Planning and Provisioning Presentation Virtualization  
Planning and Provisioning Application Virtualization**

**Planning File and Print Services  
Provisioning File Services  
Provisioning and Managing Storage  
Provisioning and Managing Network Print Services  
Migrating File and Print Services**

**Planning Network Access  
Planning Network Security  
Planning Virtual Private Networks  
Planning Network Access Protection  
Planning DirectAccess**

**Provisioning Data and Storage  
Planning and Implementing Distributed File System  
Planning and Implementing BranchCache  
Provisioning Storage**

**Planning Update Deployment  
WSUS Topologies  
Update Management**

**Planning High Availability  
Planning Network Load Balancing  
Planning Failover Clustering  
Planning for Service Availability**

**Planning Performance and Event Monitoring  
Monitoring and Analyzing Server Performance  
Managing Events**

**Enterprise Backup and Recovery  
Disaster Recovery Concepts  
Planning Windows Server Backup  
Planning and Administering Recovery**

## 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).**