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# Computer Visions Course Outline

## Get What You Want

We offer highly customizable group training courses: desktop applications, web development, networking & operating systems, technical certification, professional development & skills, help desk.

## Get It When & Where You Want It

All Computer Visions courses are available for presentation on-site or off-site for your convenience. We can roll out any combination of courses at one or more locations anywhere in the United States, according to your requirements and time table. Just let us know and we'll work with you!

## Corporate Training Solutions

Corporations look to us to train their employees. Why? Because our proven training methods have increased employee proficiency and productivity. We assign one person to each of our corporate clients to ensure quality service, and we also offer extranet Web registration, management, reporting and billing for all clients. Simplicity, quality and outstanding service are our hallmarks.

## Consulting Solutions

Consulting is about trust,

## 6430B: Planning for Windows Server 2008 Servers

### Description:

This 3-day course is intended for IT pros who are interested in the knowledge and skills necessary to plan a Windows Server 2008 operating system infrastructure. This course is aimed at server administrators and is not a "how-to" course; therefore, it has a significant number of planning exercises with less focus on hands-on exercises than some courses.

The course content and exercises direct you toward making decisions and providing guidance to others. This course reflects the decision-making tasks that a server administrator undertakes.

### Course Outline:

#### Module 1: Planning Windows Server 2008 Deployment

This module explains how to plan the deployment of Windows Server 2008 servers.

##### Lessons

- Overview of Change Management
- Planning a Single-Server Installation
- Performing a Single-Server Installation
- Automating Windows Server Deployment

##### Lab : Planning Windows Server 2008 Deployment

- Exercise 1: Creating a Planning Flowchart for a Windows Server 2008 Deployment
- Exercise 2: Planning a Windows Server 2008 Deployment

#### Module 2: Planning Network Infrastructure for Windows Server 2008

This module explains how to plan the network infrastructure for Windows Server 2008 servers.

##### Lessons

- Planning IPv4 Addressing
- Planning for Name Resolution Services
- Determining the Need for WINS
- Planning a Perimeter Network
- Planning an IPv4 to IPv6 Transition Strategy

##### Lab : Planning Network Infrastructure for Windows Server 2008

- Exercise 1: Determining an Appropriate Network Addressing

service and accountability. Our consulting division is one of the fastest-growing around. Why? Clients trust us to provide excellent service and expertise. Visit our consulting section for more information.

#### **Classroom and Computer Rentals**

Need space and equipment to conduct specialized presentations or classes? We can help. With our world class classrooms and state of the art projection and presentation equipment, we take care of the details so you can have a successful presentation.

#### **Scheme**

- Exercise 2: Planning the Placement of Network Servers
- Exercise 3: Implementing the Planned Network Services

#### **Module 3: Planning for Active Directory**

This module explains how to plan the Active Directory environment.

##### **Lessons**

- Selecting a Domain and Forest Topology
- Selecting a Domain and Forest Functional Level
- Planning Identity and Access Services in Active Directory
- Implementing Active Directory in the Physical Network

Lab : Implementing Active Directory in the Physical Network

- Exercise 1: Selecting a Forest Topology
- Exercise 2: Planning Active Directory for a Branch Network
- Exercise 3: Deploying a Branch Domain Controller

#### **Module 4: Planning for Group Policy**

This module explains how to plan for Group Policy in a Windows Server 2008 network.

##### **Lessons**

- Planning Group Policy Application
- Planning Group Policy Processing
- Planning the Management of Group Policy Objects
- Planning the Management of Client Computers

Lab : Planning for Group Policy

- Exercise 1: Creating a Group Policy Plan
- Exercise 2: Implementing Group Policy

#### **Module 5: Planning Application Servers**

This module explains how to plan for application servers in a Windows Server 2008 network.

##### **Lessons**

- Overview of Application Servers
- Supporting Web-Based Applications
- Supporting SQL Server Databases
- Deploying Client Applications
- Planning Terminal Services

Lab : Planning Application Servers

- Exercise 1: Creating a Plan for Application Servers
- Exercise 2: Implementing Windows SharePoint Services
- Exercise 3: Implementing Terminal Services

#### **Module 6: Planning File and Print Services**

This module explains how to plan for File and Print services in your Windows Server 2008 environment.

##### **Lessons**

- Planning and Deploying the File Services Role
- Managing Storage
- Planning and Implementing the Distributed File System
- Planning and Implementing Shared Printing

Lab : Planning File and Print Services

- Exercise 1: Planning File and Print Services for a Branch Office

- Exercise 2: Implementing File and Print Services in a Branch Office

### **Module 7: Planning Server and Network Security**

This module explains how to plan for server and network security in a Windows Server 2008 network.

Lessons

- Overview of Defense-in-Depth
- Planning for Windows Firewall with Advanced Security
- Planning Protection Against Viruses and Malware
- Managing Remote Access
- Planning for Network Access Protection (NAP)

Lab : Planning Server and Network Security

- Exercise 1: Creating a Plan for Server and Network Security
- Exercise 2: Implementing Windows Firewall Rules

### **Module 8: Planning Server Administration**

This module explains how to plan for effective administration of a Windows Server 2008 network.

Lessons

- Selecting the Appropriate Administration Tool
- Planning Server Core Administration
- Delegating Administration

Lab : Planning Server Administration

- Exercise 1: Planning for Branch Office Administration
- Exercise 2: Delegating Administration to Branch Office Personnel

### **Module 9: Planning and Implementing Monitoring and Maintenance**

This module explains how to plan for and implement monitoring and maintenance in a Windows Server 2008 network.

Lessons

- Planning Monitoring Tasks
- Calculating a Server Baseline
- Tools for Monitoring Server Performance
- Planning Software Updates

Lab : Planning and Implementing Monitoring and Maintenance

- Exercise 1: Evaluating Performance Metrics
- Exercise 2: Monitoring Performance Metrics
- Exercise 3: Configuring Data Collector Sets
- Exercise 4: Evaluating Trends

### **Module 10: Planning High Availability and Disaster Recovery**

This module explains how to plan for high availability and disaster recovery in a Windows Server 2008 environment.

Lessons

- Choosing a High-Availability Solution
- Planning a Backup and Restore Strategy

Lab : Planning High Availability and Disaster Recovery

- Exercise 1: Planning for Branch Office High Availability and Data Recovery
- Exercise 2: Implementing the High Availability and Disaster

Recovery Plan

**Module 11: Planning Virtualization**

This module explains how to plan virtualization to increase the efficiency and availability of applications and services.

Lessons

- Overview of Server Virtualization
- Business Scenarios for Server Virtualization
- Overview of System Center Virtual Machine Manager
- Planning Host Resources

Lab : Planning Virtualization

- Exercise 1: Creating a Virtualization Plan
- Exercise 2: Implementing Virtualization (Optional)