



www.compvisions.com

16 Corporate Woods Blvd.
Albany, NY 12211

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

6435A: Designing a Windows Server 2008 Network Infrastructure

Course Description:

This 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.

Course Outline:

Module 1: Overview of Network Infrastructure Design This module describes the key components of network infrastructure design.

Lessons

- Preparing for Network Infrastructure Design
 - Designing the Network Topology
 - Designing Network Infrastructure for Virtualization
 - Designing a Change Management Structure for a Network
- Lab : Designing Network Infrastructure in Windows Server 2008
- Preparing for the Network Infrastructure Design
 - Designing the Network Topology
 - Designing Network Infrastructure for Virtualization
 - Designing a Change Management plan
 - Lab Discussion

Module 2: Designing Network Security This module explains how to design a secure network.

Lessons

- Overview of Network Security Design
 - Creating a Network Security Plan
 - Identifying Threats to Network Security
 - Analyzing Security Risks
 - Defense-in-Depth Model Overview
- Lab : Designing a Network Security Plan
- Identifying a Team for the Security Plan Scenario
 - Identifying Threats
 - Analyzing Risk
 - Discussion of Designing a Network Security Plan

Consulting is about trust, 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.

Module 3: Designing IP AddressingThis module describes how to design a plan for allocating IP addresses to workstations and servers.

Lessons

- 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 an IPv4 Addressing Scheme
- Designing an IPv6 Addressing Scheme
- Designing a DHCP Implementation
- Discussion of IP Address Allocation

Module 4: Designing Routing and SwitchingThis module explains how to design a network topology.

Lessons

- 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 the Placement of Routers
- Designing a Perimeter Network
- Evaluating Network Performance
- Discussion of Designing a Network Routing Topology

Module 5: Designing Security for Internal NetworksThis module explains the internal considerations for network security and how they can be addressed.

Lessons

- Designing Windows Firewall Implementation
- Overview of IPSec
- Designing IPSec Implementation

Lab : Designing a Secure Internal Network

- Designing a Windows Firewall Implementation
- Designing an IPSec Implementation

Module 6: Designing Name ResolutionThis module explains how to design an appropriate name resolution system that incorporates DNS.

Lessons

- 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 a DNS Server Strategy
- Designing a DNS Namespace
- Designing a DNS Zone and Replication Strategy
- Discuss the Design of Name Resolution
- Implement a DNS Zone and Replication Strategy

Module 7: Designing Advanced Name Resolution This module explains an appropriate name resolution system that incorporates DNS and WINS.

Lessons

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

Lab : Designing a Name Resolution Strategy in Windows Server 2008

- Optimize DNS Resolution
- Designing and Configuring WINS Name Resolution
- Integrating DNS and WINS Name Resolution

Module 8: Planning and Deploying the Application Virtualization Management System This module explains how to design a solution for network access.

Lessons

- 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 a Network Access Solution

- Designing a Remote Access Solution
- Designing Network Policy Services
- Designing a Wireless Connection Solution
- Discuss the Design of Network Access
- Deploying an SSTP VPN Solution

Module 9: Designing Network Access Protection This module explains how to design a NAP solution.

Lessons

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

Lab : Designing Network Access Protection

- Analyzing Enforcement Methods
- Designing DHCP Enforcement
- Designing IPSec Enforcement
- Implementing DHCP Enforcement

Module 10: Designing Operating System Deployment and Maintenance This module explains how to design a solution for

operating system deployment and maintenance

Lessons

- 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

Lab : Designing Operating System Deployment and Maintenance

- Designing an Operating System Deployment Solution
- Designing WDS Deployment
- Designing WDS Images
- Designing a WSUS Deployment
- Discussing Operating System Deployment and Maintenance

Module 11: Designing File Services and DFS in Windows Server 2008This module explains how to design the deployment of file services and DFS.

Lessons

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

Lab : Designing File Services and DFS in Windows Server 2008

- Selecting File Services Components
- Designing DFS
- Designing FSRM
- Implementing DFS
- Implementing FSRM

Module 12: Designing High Availability in Windows Server 2008This module explains how to design high availability for applications and services.

Lessons

- 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

- Designing High Availability
- Implementing an NLB Design
- Implementing a Failover Cluster Design

Module 13: Designing Print Services in Windows Server 2008This module explains how to design print services in Windows Server 2008.

Lessons

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

Lab : Designing Shared Resources in Windows Server 2008

- Analyzing the Components of a Print Services Design
- Designing a Shared Printer Deployment