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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

## 6231A: Maintaining a Microsoft SQL Server 2008 Database

This course provides students with the knowledge and skills to maintain a Microsoft SQL Server 2008 database. The course focuses on teaching individuals how to use SQL Server 2008 product features and tools related to maintaining a database.

This course is intended for IT Professionals who administer and maintain SQL Server databases.

### Outline:

#### Module 1: Installing and Configuring SQL Server

The students will be introduced to planning for a SQL Server installation. The students will then be introduced to installing, configuring, and managing SQL Server.

##### Lessons

- Preparing to Install SQL Server
- Installing SQL Server
- Configuring a SQL Server Installation

##### Lab : Installing and Configuring SQL Server

- (Level 200) Installing SQL Server
- (Level 200) Configuring SQL Server

#### Module 2: Managing Databases and Files

The students will be introduced to database planning and creation, and using database options to control database behavior.

##### Lessons

- Planning Databases
- Creating Databases
- Using Policy-Based Management

##### Lab : Managing Databases and Files

- (Level 200) Creating a Database
- (Level 200) Monitoring and Managing Filegroup Usage
- (Level 200) Creating a Policy

#### Module 3: Disaster Recovery

The students will be introduced to disaster recovery techniques

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#### **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.

for SQL Server. They will learn how to perform different types of backup and restore operations, including online restores and backup and restores of system databases.

#### Lessons

- Planning a Backup Strategy
- Backing Up User Databases
- Restoring User Databases
- Performing Online Restore Operations
- Recovering Data from Database Snapshots
- System Databases and Disaster Recovery

#### Lab : Disaster Recovery

- (Level 200) Designing a Backup Strategy
- (Level 200) Implementing a Backup Strategy
- (Level 200) Restoring and Recovering a Database
- (Level 300) Performing Piecemeal Backup and Restore Operations
- (Level 200) Restoring the master Database

#### Module 4: Managing Security

The students will be introduced to protecting SQL Server. Students will learn about the SQL Server security model and how to use SQL Server security features to control access to databases and their contents.

#### Lessons

- Overview of SQL Server Security
- Protecting the Server Scope
- Protecting the Database Scope
- Protecting the Server Scope
- Auditing Security

#### Lab : Managing Security

- (Level 200) Creating Logins and Assigning Server-Scope Permissions
- (Level 200) Creating and Managing Users
- (Level 300) Using a Certificate to Protect Data
- (Level 200) Implementing SQL Server Audit

#### Module 5: Transferring Data

The students will be introduced to transfer data to and from SQL Server using UI and command-line tools, and learn about transferring and transforming data with SQL Server Integration Services.

#### Lessons

- Overview of Data Transfer
- Introduction to SQL Server Integration Services

#### Lab : Transferring Data

- (Level 200) Using the Import/Export Wizard
- (Level 200) Performing a Bulk Load
- (Level 200) Creating an SSIS Solution

#### Module 6: Automating Administrative Tasks

The students will learn how to automate routine administrative

tasks using jobs, operators, and alerts.

Lessons

- Automating Administrative Tasks in SQL Server
- Using SQL Server Agent
- Creating Maintenance Plans
- Implementing Alerts
- Managing Multiple Servers
- Managing SQL Server Agent security

Lab : Automating Administrative Tasks

- (Level 200) Configuring SQL Server Agent
- (Level 200) Creating Operators and Jobs
- (Level 200) Creating Alerts

Module 7: Implementing Replication

The students will be introduced to techniques for configuring SQL Server replication.

Lessons

- Overview of Replication
- Managing Publications and Subscriptions
- Configuring Replication in Some Common Scenarios

Lab : Implementing Replication

- (Level 300) Implementing Snapshot Replication
- (Level 300) Implementing Peer-to-Peer Transactional Replication
- (Level 300) Implementing HTTP Merge Replication

Module 8: Maintaining High Availability

The students will be introduced to concepts and methods for maintaining high availability with SQL Server.

Lessons

- Introduction to High Availability
- Implementing Log Shipping
- Implementing Database Mirroring
- Implementing Server Clustering
- Using Distributed High Availability Solutions

Lab : Maintaining High Availability

- (Level 300) Configuring Log Shipping
- (Level 300) Configuring Database Mirroring
- (Level 300) Implementing SQL Server Clustering

Module 9: Monitoring SQL Server

The students will be introduced to monitoring SQL Server performance and activity.

Lessons

- Viewing Current Activity
- Using SQL Server Profiler
- Monitoring with DDL Triggers
- Using Event Notifications

Lab : Monitoring SQL Server

- (Level 200) Monitoring SQL Server Activity
- (Level 300) Tracing SQL Server Activity

- (Level 200) Using DDL Triggers
- (Level 200) Using Event Notifications

#### Module 10: Troubleshooting and Performance Tuning

The students will learn how to troubleshoot a variety of common SQL Server problems. Students will also learn how to tune SQL Server for improved performance using a variety of tools.

#### Lessons

- Troubleshooting SQL Server
- Performance Tuning in SQL Server
- Using Resource Governor
- Using Data Collector

#### Lab : Troubleshooting and Performance Tuning

- (Level 300) Troubleshooting Connectivity Problems
- (Level 300) Troubleshooting Concurrency Problems
- (Level 300) Using the Database Engine Tuning Advisor
- (Level 300) Implementing Resource Governor
- (Level 300) Implementing Data Collector