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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,

## 2779: Implementing a Microsoft SQL Server 2005 Database

### Description:

This five-day instructor-led course provides students with the knowledge and skills to implement a Microsoft SQL Server 2005 database. The course focuses on teaching individuals how to use SQL Server 2005 product features and tools related to implementing a database.

### Course Outline:

#### Module 1: Creating Databases and Database Files

This module explains how to create databases, filegroups, schemas, and database snapshots.

#### Lessons

- Creating Databases.
- Creating Filegroups.
- Creating Schemas.
- Creating Database Snapshots.

#### Lab 1: Creating a Database

- Creating a Database.
- Creating Schemas.

After completing this module, students will be able to:

- Create databases.
- Create filegroups.
- Create schemas.
- Create database snapshots.

#### Module 2: Creating Data Types and Tables

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.

This module explains how to create data types and tables. It also describes how to create partitioned tables.

#### Lessons

- Creating Data Types.
- Creating Tables.
- Creating Partitioned Tables.

#### Lab 2: Creating Data Types and Tables

- Creating Data Types.
- Creating Tables.
- Creating Partitioned Tables.

After completing this module, students will be able to:

- Create data types.
- Create tables.
- Create partitioned tables.

#### Module 3: Using XML

This module explains how to use the FOR XML clause and the OPENXML function. It also describes how to use the xml data type and its methods.

#### Lessons

- Retrieving XML by Using FOR XML.
- Shredding XML by Using OPENXML.
- Using the xml Data Type.

#### Lab 3: Working with XML

- Mapping Relational Data and XML.
- Storing XML Natively in the Database.

After completing this module, students will be able to:

- Retrieve XML with FOR XML.
- Shred XML with OPENXML.
- Use the xml data type.
- Use the methods of the xml data type.

## Module 4: Creating and Tuning Indexes

This module explains how to plan, create, and optimize indexes. It also describes how to create XML indexes.

### Lessons

- Planning Indexes.
- Creating Indexes.
- Optimizing Indexes.
- Creating XML Indexes.

### Lab 4: Creating Indexes

- Creating Indexes.
- Tuning Indexes.
- Creating XML Indexes.

After completing this module, students will be able to:

- Plan indexes.
- Create indexes.
- Optimize indexes.
- Create XML indexes.

## Module 5: Implementing Data Integrity

This module explains how to implement constraints, triggers, and XML schemas.

### Lessons

- Data Integrity Overview.
- Implementing Constraints.
- Implementing Triggers.
- Implementing XML Schemas.

### Lab 5: Implementing Data Integrity

- Creating Constraints.
- Creating Triggers.

- Implementing XML Schemas.

After completing this module, students will be able to:

- Describe types of data integrity and options for enforcing it.
- Implement constraints.
- Implement triggers.
- Implement XML schemas.

#### Module 6: Implementing Views

This module explains how to create views.

Lessons

- Introduction to Views.
- Creating and Managing Views.
- Optimizing Performance by Using Views.

#### Lab 6: Creating Views

- Creating Views.
- Creating Indexed Views.
- Creating Partitioned Views.

After completing this module, students will be able to:

- Describe the purpose of views.
- Create and manage views.
- Design views for performance.

#### Module 7: Implementing Stored Procedures and Functions

This module explains how to create stored procedures and functions.

Lessons

- Implementing Stored Procedures.
- Creating Parameterized Stored Procedures.
- Creating Functions.
- Handling Errors.

- Controlling Execution Context.

#### Lab 7: Creating Stored Procedures and Functions

- Creating Stored Procedures.
- Creating Functions.

After completing this module, students will be able to:

- Implement stored procedures.
- Create parameterized stored procedures.
- Handle errors in a stored procedure.
- Implement Scalar Functions.
- Create Table Valued Functions.
- Control Execution Context.

#### Module 8: Implementing Managed Code in the Database

This module explains how to implement managed database objects.

##### Lessons

- Introduction to the SQL Server Common Language Runtime.
- Importing and Configuring Assemblies.
- Creating Managed Database Objects.

#### Lab 8: Implementing Managed Code in the Database

- Importing an Assembly.
- Creating Managed Database Objects.

After completing this module, students will be able to:

- Identify appropriate scenarios for managed code in the database.
- Import and configure assemblies.
- Create managed database objects.

#### Module 9: Using Service Broker

This module explains how to build a messaging-based solution with Service Broker.

##### Lessons

- Service Broker Overview.
- Creating Service Broker Objects.
- Sending and Receiving Messages.

#### Lab 9: Using Service Broker

- Creating Service Broker Objects.
- Implementing the Initiating Service.
- Implementing the Target Service.

After completing this module, students will be able to:

- Describe Service Broker functionality and architecture.
- Create Service Broker objects.
- Send and receive Service Broker messages.