

**Course Outline:** 6231, Maintaining a Microsoft SQL Server 2008 Database

**Learning Method:** Instructor-led Classroom Learning

**Duration:** 5.00 Day(s)/ 40 hrs

**Overview:**

This five-day instructor-led 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

**Who Should Attend:**

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

**At Course Completion:**

After completing this course, students will be able to:

- Install and configure SQL Server 2008.
- Manage database files.
- Backup and restore databases.
- Manage security.
- Transfer data into and out of SQL Server.
- Automate administrative tasks.
- Replicate data between SQL Server instances.
- Maintain high availability
- Monitor SQL Server.

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**Outline:**

**Module 1: Installing and Configuring 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**

**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**

**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

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- (Level 300) Performing Piecemeal Backup and Restore Operations
- (Level 200) Restoring the master Database

#### Module 4: Managing Security

##### 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

##### 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

#### Module 6: Automating Administrative Tasks

##### 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

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- (Level 200) Creating Operators and Jobs
- (Level 200) Creating Alerts

### Module 7: Implementing 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

#### 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

#### 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

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## Module 10: Troubleshooting and Performance Tuning

### 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

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