

# Updating Your SQL 2005 Skills to SQL Server 2008

Course 6158 • 3 Days

## ▶ COURSE OVERVIEW

This three-day instructor-led course provides students with the knowledge and skills to update their skills in Microsoft SQL Server 2005 to SQL Server 2008.

## ▶ AUDIENCE

This course is intended for developers and database administrators who are experienced with using SQL Server 2005 and want to update their skills to SQL Server 2008.

## ▶ OBJECTIVES

After completing this course, students will be able to:

- Describe the new features of SQL Server 2008.
- Manage SQL Server 2008.
- Optimize SQL Server 2008.
- Secure a SQL Server 2008 database.
- Develop databases by using SQL Server 2008.
- Create and maintain highly available SQL Server 2008 databases.
- Create and use a SQL Server 2008 data warehouse.
- Use SQL Server 2008 Reporting Services.
- Use SQL Server 2008 Analysis Services.

## ▶ PREREQUISITES

Before attending this course, students must have experience with developing or administering databases in SQL Server 2005.

## ▶ COURSE OUTLINE

### Module 1: An Introduction to SQL Server 2008

- Lessons**
- The Evolution of SQL Server
  - Preparing for SQL Server 2008

### Lab: Exploring New Features in SQL Server 2008

- Exploring the SQL Server Installation Center
- Reviewing Tutorials in SQL Server Books Online
- Reviewing Topics in SQL Server Books Online

After completing this module, students will be able to:

- Describe the evolution of SQL Server.
- Prepare for SQL Server 2008.

### Module 2: SQL Server 2008 Manageability Enhancements

- Lessons**
- Central Management Servers
  - Policy-Based Management

### Lab: Managing SQL Server 2008

- Creating a Central Management Server
- Creating and Applying a Policy

After completing this module, students will be able to:

- Create and use a Central Management server.
- Create and use policies.

### Module 3: SQL Server 2008 Performance Enhancements

- Lessons**
- Managing Workloads by Using Resource Governor
  - Monitoring Performance by Using Data Collector
  - Managing Performance by Using Plan Freezing



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## Lab: Optimizing SQL Server 2008

- Using Resource Governor
- Using Data Collector

After completing this module, students will be able to:

- Manage workloads by using Resource Governor.
- Monitor performance by using Data Collector.
- Manage performance by using plan freezing.

## Module 4: SQL Server 2008 Security Enhancements

### Lessons

- Encrypting Databases
- SQL Server Audit

## Lab: Securing and Auditing a SQL Server 2008 Database

- Using Transparent Data Encryption
- Configuring Auditing

After completing this module, students will be able to:

- Encrypt databases.
- Configure SQL Server Audit.

## Module 5: SQL Server 2008 Database Development Enhancements

### Lessons

- Developer Tool Enhancements
- Data Type Enhancements
- Working with Spatial Data

## Lab: Developing Databases with SQL Server 2008

- Using Date and Time Data Types
- Using Spatial Data

After completing this module, students will be able to:

- Describe the developer tool enhancements in SQL Server 2008.
- Use the data type enhancements in SQL Server 2008.
- Work with spatial data.

## Module 6: SQL Server 2008 Availability Enhancements

### Lessons

- Always-on Technologies
- Transactional Peer-to-Peer Replication

## Lab: Maintaining High Availability

- Configuring Peer-to-Peer Replication
- Adding a Replication Node

After completing this module, students will be able to:

- Describe the SQL Server 2008 always-on technologies.
- Implement transactional peer-to-peer replication.

## Module 7: SQL Server 2008 Data Warehousing Enhancements

### Lessons

- ETL Enhancements
- Using Partitioned Tables
- Optimizing Data Storage

## Lab: Data Warehousing with SQL Server 2008

- Using Change Data Capture
- Using the MERGE Statement
- Working with Partitioned Data
- Compressing Data

After completing this module, students will be able to:

- Describe the new extract, load, and transform (ETL) enhancements in SQL Server 2008.
- Use partitioned tables.
- Optimize data storage.

## Module 8: SQL Server 2008 Reporting Services Enhancements

### Lessons

- Reporting Services Architecture and Management
- Authoring Reports
- Report Processing and Rendering



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## Lab: Using SQL Server 2008 Reporting Services

- Creating a Report
- Managing Reporting Services

After completing this module, students will be able to:

- Describe the Reporting Services architecture and management.
- Author reports.
- Understand report processing and rendering.

## Module 9: SQL Server 2008 Analysis Services Enhancements

### Lessons

- Multidimensional Analysis with SQL Server 2008 Analysis Services
- Data Mining with SQL Server 2008 Analysis Services

## Lab: Using SQL Server 2008 Analysis Services

- Implementing Multidimensional Analysis
- Implementing Data Mining

After completing this module, students will be able to:

- Implement multidimensional analysis.
- Implement data mining.



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