



## Course M6158-ILT

### Updating Your SQL Server 2005 Skills to SQL Server 2008

Three days, Instructor-Led

#### INTRODUCTION

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

#### AUDIENCE

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

#### PREREQUISITES

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

#### COURSE OUTLINE

##### MODULE 1: INTRODUCTION TO SQL SERVER 2008

Lessons

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

##### **Lab 1: Exploring SQL Server Books Online**

- Reviewing the SQL Server Books Online Tutorials
- Reviewing SQL Server Books Online

##### MODULE 2: SQL SERVER 2008 MANAGEABILITY ENHANCEMENTS

Lessons

- Configuration Servers
- Policy-Based Management

##### **Lab 2: Managing SQL Server 2008**

- Creating a Configuration Server
- Creating and Applying a Policy

##### MODULE 3: SQL SERVER 2008 PERFORMANCE ENHANCEMENTS

Lessons

- Managing Workloads with Resource Governor
- Monitoring Performance with the Data Collector
- Managing Performance with Plan Freezing

##### **Lab 3: Optimizing SQL Server 2008**

- Using Resource Governor
- Using the Data Collector



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#### MODULE 4: SQL SERVER 2008 SECURITY ENHANCEMENTS

##### Lessons

- Encrypting Databases
- Auditing All Actions

##### **Lab 4: Securing a SQL Server 2008 Database**

- Using Transparent Data Encryption

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#### MODULE 5: SQL SERVER 2008 DATABASE DEVELOPMENT ENHANCEMENTS

##### Lessons

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

##### **Lab 5: Developing Databases with SQL Server 2008**

- Using Date and Time Data Types
- Using Spatial Data

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#### MODULE 6: SQL SERVER 2008 AVAILABILITY ENHANCEMENTS

##### Lessons

- Always On Technologies
- Transactional Peer-to-Peer Replication

##### **Lab 6: Maintaining High Availability**

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

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#### MODULE 7: SQL SERVER 2008 DATA WAREHOUSING ENHANCEMENTS

##### Lessons

- ETL Enhancements
- Using Partitioned Tables
- Optimizing Data Storage

##### **Lab 7: Data Warehousing with SQL Server 2008**

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



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#### MODULE 8: SQL SERVER 2008 REPORTING SERVICES ENHANCEMENTS

##### Lessons

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

##### **Lab 8: Using SQL Server 2008 Reporting Services**

- Creating a Report with Report Designer
- Managing Reporting Services

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#### MODULE 9: SQL SERVER 2008 ANALYSIS SERVICES ENHANCEMENTS

##### Lessons

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

##### **Lab 9: Using SQL Server 2008 Analysis Services**

- Implementing Multidimensional Analysis
- Implementing Data Mining