

Course Outline

6158- Updating Your SQL Server 2005 Skills to SQL Server 2008



Duration: 3 days (18 hours)

Learning 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 with 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.

Target 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.

Topics Covered:

- Module 1: Introduction to SQL Server 2008
 - 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

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
 - Configuration Servers

- Policy-Based Management
 - Lab 2: Managing SQL Server 2008
 - Creating a Configuration Server
 - Creating and Applying a Policy

After completing this module, students will be able to:

- Create and use a configuration server.
- Create and use policies.

➤ Module 3: SQL Server 2008 Performance Enhancements

- 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

After completing this module, students will be able to:

- Manage workloads with Resource Governor.
- Monitor performance with the Data Collector.
- Manage performance with Plan Freezing.

➤ Module 4: SQL Server 2008 Security Enhancements

- Encrypting Databases
- Auditing All Actions
 - Lab 4: Securing a SQL Server 2008 Database
 - Using Transparent Data Encryption

After completing this module, students will be able to:

- Encrypt databases.
- Audit all actions.

➤ Module 5: SQL Server 2008 Database Development Enhancements

- 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

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

- Always On Technologies
- Transactional Peer-to-Peer Replication
 - Lab 6: 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

- 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

After completing this module, students will be able to:

- Describe the ETL enhancements in SQL Server 2008.
- Use partitioned tables.
- Optimize data storage.

➤ Module 8: SQL Server 2008 Reporting Services Enhancements

- 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

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

- 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

After completing this module, students will be able to:

- Implement multidimensional analysis.
- Implement data mining.