

6158 – Updating SQL Server 2005 Skills to SQL Server 2008

Vendor Course Code: 6158

Course Length: 3 days

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

Skills Gained:

After completing this course, students will be able to:

- Describe the new features of SQL Server 2008.
- Manage SQL Server 2008.
- Optimise 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.

Key Topics:

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

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
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

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

Lab 3: Optimising 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

Lessons
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

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

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 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

Lessons
ETL Enhancements
Using Partitioned Tables
Optimising 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.
- Optimise data storage.

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

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 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.

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.