

## **Course 6158C: Updating Your SQL Server 2005 Skills to SQL Server 2008**

### **Prerequisites**

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

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

#### **Lessons**

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

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

- Using Resource Governor
- Using the Data Collector

### **Module 4: SQL Server 2008 Security Enhancements**

#### **Lessons**

- Encrypting Databases
- Auditing All Actions

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

- Using Transparent Data Encryption

### **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

### **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

## **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

## **Module 8: SQL Server 2008 Reporting Services Enhancements**

### **Lessons**

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

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

- Creating a Report with Report Designer
- Managing Reporting Services

## **Module 9: SQL Server 2008 Analysis Services Enhancements**

### **Lessons**

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

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

- Implementing Multidimensional Analysis
- Implementing Data Mining