

Brought to you by **iEnabler – THE IT ENABLING COMPANY**



# Maintaining A Microsoft SQL Server 2008 (MS 6231A)

## **Course Objective:**

This five-day instructor-led course provides students with the knowledge and skills to maintain a Microsoft SQL Server 2008 database. The course focuses on teaching individuals how to use SQL Server 2008 product features and tools related to maintaining a database.

## **Prerequisite:**

Working knowledge of Transact-SQL and relational database, some experience in database design and MS Windows operating system and its core functionality

## **Certificate Of Attendance :**

Certificate Of Attendance will be awarded to students completing the course achieving a minimum 75% attendance.

## **Training Methodology & Materials:**

- Practical hands-on sessions,
- Additional and well-designed lab handouts are given to enhance further enhance the courseware given.

## **Training Duration:**

Full-time: 5 Days (9.30am – 5.30pm)  
Part-time : 10 sessions (6.30pm – 10.00pm)

## **Course Fee :**

Course Fee : S\$999 excluding Microsoft Exam  
Regn Fee : S\$50

## **DETAILED COURSE OUTLINE**

### **Course 6231A: Maintaining a Microsoft SQL Server 2008 Database**

#### **Module 1: Installing and Configuring SQL Server 2008.**

The students will be introduced to planning for a SQL Server installation. The students will then be introduced to installing, configuring, and managing SQL Server.

- Preparing to Install SQL Server
- Installing SQL Server
- Configuring a SQL Server Installation

#### **Module 2: Managing Databases and Files**

The students will be introduced to database planning and creation, and using database options to control database behavior.

- Planning Databases
- Creating Databases
- Using Policy-Based Management

#### **Module 3: Disaster Recovery**

This module explains how to plan and implement a backup and restore strategy.

- Planning a Backup Strategy.
- Backing Up User Databases.
- Restoring User Databases.
- Performing Online Restore Operations
- Recovering Data from Database Snapshots.
- System Database and Disaster Recovery.

#### **Module 4: Managing Security**

This module explains how to protect SQL Server. Student will learn about SQL Server security model and how to use SQL Server security features to control access to databases and their contents.

- Overview of SQL Server Security.
- Protect SQL Server at the server level.
- Protect SQL Server databases.
- Use keys and certificates to protect SQL Server objects.
- Audit SQL Server security.

#### **Module 5: Transferring Data**

This module explains how to transfer and transform data.

- Overview of Data Transfer
- Introduction to SQL Server Integration Services

#### **Module 6: Automating Administrative Tasks**

This module explains how to use the SQL Server Agent to automate administrative tasks.

- Automating Administrative Tasks in SQL Server
- Using SQL Server Agent
- Creating Maintenance Plans
- Implementing Alerts
- Managing Multiple Servers
- Managing SQL Server Agent security

#### **Module 7: Implementing Replication**

This module explains the techniques for configuring SQL replication.

- Describe replication and its components.
- Configure and implement replication.
- Use replication to meet the requirements of some common scenarios.

#### **Module 8: Maintaining High Availability**

This module explains how to implement high availability technologies with SQL Server 2008.

- Introduction to High Availability
- Implementing Log Shipping
- Implementing Database Mirroring
- Implementing Server Clustering
- Using Distributed High Availability Solutions

#### **Module 9: Monitoring SQL Server**

This module explains how to monitor SQL Server performance and activities.

- Viewing Current Activity
- Using SQL Server Profiler
- Monitoring with DDL Triggers
- Using Event Notifications

#### **Module 10: Troubleshooting and Performance Tuning**

The students will learn how to tune SQL Server performance.

- Troubleshooting SQL Server
- Performance Tuning in SQL Server
- Using Resource Governor
- Using Data Collector

<b><u>Microsoft Certification (MCTS SQL Server 2008, Implementation and Maintenance)</u></b> This course will help the student prepare for the Exam 70-432