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# Administering Microsoft SQL Server 2012 Databases

(Exam Code 70-462)

## **Course Objective:**

This course MS SQL Server 2012 - Database Administration teaches how to perform database administration tasks such as installation of SQL Server instances, configuration of SQL Server databases and settings, monitoring database performance, controlling user access to databases, and database maintenance.

In addition to these tasks, SQL Server 2012 provides many advanced features that enable you to manage databases efficiently. By familiarizing yourself with these tasks and features, you can plan, deploy, administer, and maintain SQL Server databases efficiently. In this course, you will perform database administration tasks.

## **Prerequisite:**

Basic knowledge of relational database, some experience in database design and MS Windows operating system 7 and its core functionality

## **Certificate Of Attendance :**

Certificate Of Attendance will be awarded to participants 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.
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## **Training Duration:**

Full-time: 5 Days  
Time : 9.30am – 5.30pm

## **Course Fee :**

Course Fee : S\$2499  
Regn Fee : S\$50  
Exam Fee : S\$296 (Optional)  
Exam fee includes S\$50 exam proctor fee.  
All fees subject to GST 7%.

## DETAILED COURSE OUTLINE

### **Course : MS 10775**

#### **Module 1: Introduction to SQL Server 2012 and its Toolset**

- Introduction to the SQL Server Platform
- Working with SQL Server Tools
- Configuring SQL Server Services

#### **Module 2: Preparing Systems for SQL Server 2012**

- Overview of SQL Server Architecture
- Planning Server Resource Requirements
- Pre-installation Testing for SQL Server

#### **Module 3: Installing and Configuring SQL Server 2012**

- Preparing to Install SQL Server
- Installing SQL Server
- Upgrading and Automating Installation

#### **Module 4: Working with Databases**

- Overview of SQL Server Databases
- Working with Files and Filegroups
- Moving Database Files

#### **Module 5: Understanding SQL Server 2012 Recovery Models**

- Backup Strategies
- Understanding SQL Server Transaction Logging
- Planning a SQL Server Backup Strategy

#### **Module 6: Backup of SQL Server 2012 Databases**

- Backing up Databases and Transaction Logs
- Managing Database Backups
- Working with Backup

#### **Module 7: Restoring SQL Server 2012 Databases**

- Understanding the Restore Process
- Restoring Databases
- Working with Point-in-time recovery
- Restoring System Databases and Individual Files

#### **Module 8: Importing and Exporting Data**

- Transferring Data To/From SQL Server
- Importing and Exporting Table Data
- Inserting Data in Bulk

#### **Module 9: Authenticating and Authorizing Users**

- Authenticating Connections to SQL Server
- Authorizing Logins to Access Databases
- Authorization Across Servers

#### **Module 10: Assigning Server and Database Roles**

- Working with Server Roles
- Working with Fixed Database Roles
- Creating User-defined Database Roles

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<p><b>Module 11: Authorizing Users to Access Resources</b></p> <ul style="list-style-type: none"> <li>– Authorizing User Access to Objects</li> <li>– Authorizing Users to Execute Code</li> <li>– Configuring Permissions at the Schema Level</li> </ul> <p><b>Module 12: Auditing SQL Server Environments</b></p> <ul style="list-style-type: none"> <li>– Options for Auditing Data Access in SQL</li> <li>– Implementing SQL Server Audit</li> <li>– Managing SQL Server Audit</li> </ul> <p><b>Module 13: Automating SQL Server 2012 Management</b></p> <ul style="list-style-type: none"> <li>– Automating SQL Server Management</li> <li>– Working with SQL Server Agent</li> <li>– Managing SQL Server Agent Jobs</li> </ul> <p><b>Module 14: Configuring Security for SQL Server Agent</b></p> <ul style="list-style-type: none"> <li>– Understanding SQL Server Agent Security</li> <li>– Configuring Credentials</li> <li>– Configuring Proxy Accounts</li> </ul> <p><b>Module 15: Monitoring SQL Server 2012 with Alerts and Notifications</b></p> <ul style="list-style-type: none"> <li>– Configuration of Database Mail</li> <li>– Monitoring SQL Server Errors</li> <li>– Configuring Operators, Alerts and Notifications</li> </ul>	<p><b>Module 16: Performing Ongoing Database Maintenance</b></p> <ul style="list-style-type: none"> <li>– Ensuring Database Integrity</li> <li>– Maintaining Indexes</li> <li>– Automating Routine Database Maintenance</li> </ul> <p><b>Module 17: Tracing Access to SQL Server 2012</b></p> <ul style="list-style-type: none"> <li>– Capturing Activity using SQL Server Profiler</li> <li>– Improving Performance with the Database Engine Tuning Advisor</li> <li>– Working with Tracing Options</li> </ul> <p><b>Module 18: Monitoring SQL Server 2012</b></p> <ul style="list-style-type: none"> <li>– Monitoring Activity</li> <li>– Capturing and Managing Performance Data</li> <li>– Analyzing Collected Performance Data</li> </ul> <p><b>Module 19: Managing Multiple Servers</b></p> <ul style="list-style-type: none"> <li>– Working with Multiple Servers</li> <li>– Virtualizing SQL Server</li> <li>– Deploying and Upgrading Data-Tier Applications</li> </ul> <p><b>Module 20: Troubleshooting Common SQL Server 2012 Administrative Issues</b></p> <ul style="list-style-type: none"> <li>– SQL Server Troubleshooting Methodology</li> <li>– Resolving Service-related Issues</li> <li>– Resolving Concurrency Issues</li> <li>– Resolving Login and Connectivity Issues</li> </ul>
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