



COURSE : MAINTAINING MS SQL SERVER 2005

This 2 day course is intended for IT Professionals wanting to become skilled on SQL Server 2005 product features and technologies for maintaining a SQL 2005 database. The course is also suitable to any IT Professionals wanting to update their skills from SQL 2000 to SQL 2005.

DATE:	As per schedule
TIMES:	As per schedule
DURATION:	2 Days
VENUE:	As per quotation
COURSE TYPE:	Facilitator lead, hands on sessions
GROUP SIZE:	Grouped according to skill level with a maximum number of 8 delegates
COURSE DOCUMENTATION:	User Guide
TARGET AUDIENCE:	Professionals wanting to become skilled on SQL Server 2005 product features and technologies for maintaining a SQL 2005 database
AUDIENCE LEVEL:	Basic to intermediate
PREREQUISITES:	Basic knowledge of Microsoft Windows; working knowledge of Transact-SQL; working knowledge of relational databases; some experience with database design.
COURSE OBJECTIVE	After completing this module; <ul style="list-style-type: none">• Students will be able to describe the factors affecting database availability• Explain how to implement clustering to support fast failover of computers running Microsoft SQL Server instances• Describe how to use SQL Server mirroring to implement a software solution for fast failover• Describe how to implement log shipping to support fast recovery of a standby SQL Server database• Explain how to use peer-to-peer replication to implement high availability in a distributed environment
COST PER DELEGATE:	As per quotation

Module 1: Installing and Configuring SQL Server 2005

This module explains how to plan for and install SQL Server 2005, how to manage a SQL Server 2005 installation, and how to use the SQL Server 2005 administrative tools. After completing this module, students will be able to:

- Explain how to prepare the hardware and other resources necessary to install SQL Server 2005.
- Install SQL Server 2005.
- Manage and configure a SQL Server 2005 installation.

Module 2: Managing Databases and Files

This module explains how to manage databases and files. After completing this module, students will be

able to:

- Plan how to implement a database that meets an organization's requirements.
- Create a SQL Server database.
- Manage a SQL Server database.

Module 3: Disaster Recovery

This module explains how to plan and implement a backup and restore strategy. After completing this module, students will be able to:

- Plan a backup strategy for a database.
- Back up user databases.
- Restore user databases from backups.
- Restore data in a user database while it is online.
- Recover data for a user database from a database snapshot.
- Restore and recover systems databases.

Module 4: Managing Security

This module explains how to manage principals, securable, and permissions, and how to implement cryptography in a SQL Server database.

Lab 4: Managing Security

- After completing this module, students will be able to:
- Describe how SQL Server manages security.
- Protect SQL Server at the server level.
- Protect SQL Server databases.
- Use keys and certificates to protect SQL Server objects.

Module 5: Monitoring SQL Server

This module explains how to monitor SQL Server performance and activity. After completing this module, students will be able to:

- Examine the current activity in a SQL Server instance.
- Use System Monitor to obtain performance data about your computer and the instances of SQL Server running on your computer.
- Use SQL Server Profiler to trace server and database activity.
- Implement DDL triggers that enable you to audit changes to the structure of database objects.
- Use event notifications to capture and monitor significant events for a SQL Server instance.

Module 6: Transferring Data

This module explains how to transfer and transform data. After completing this module, students will be able to:

- Describe the problems surrounding data transfer and the tools that SQL Server 2005 provides to perform data transfer.
- Describe the purpose of SQL Server Integration Services.
- Use SQL Server Integration Services to transfer data into a SQL Server database.
- Describe the features of SQL Server Integration Services.

Module 7: Automating Administrative Tasks

This module explains how to use the SQL Server Agent to automate administrative tasks. After completing this module, students will be able to:

- Define SQL Server 2005 administrative tasks and schedule these tasks to run automatically.
- Configure SQL Server Agent to support automatic task scheduling.
- Script tasks by using SQL Server jobs, and define operators for managing these jobs.
- Define alerts to warn operators about events raised by SQL Server.
- Define and manage administrative tasks that span multiple servers.
- Configure SQL Server Agent security.

Module 8: Implementing Replication

This module explains the purpose of replication, introduces the concepts underpinning replication, and describes how to implement replication in several common scenarios. After completing this module, students will be able to:

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

Module 9: Maintaining High Availability

This module explains how to implement high availability technologies with SQL Server 2005. After completing this module, students will be able to:

- Describe the factors affecting database availability.
- Explain how to implement clustering to support fast failover of computers running Microsoft SQL Server instances.
- Describe how to use SQL Server mirroring to implement a software solution for
 - fast failover.
- Describe how to implement log shipping to support fast recovery of a standby
 - SQL Server database.

- Explain how to use peer-to-peer replication to implement high availability in a distributed environment.

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