



## ET : 512 Microsoft SQL Server 2005 Administration

Discover how Microsoft SQL Server 2005 will benefit you as a Database Administrator with its new and enhanced features. This hands-on course will explore the new features and allow experienced SQL Server administrators and developers to prepare for upgrading existing systems while learning about the extensive new technologies available. New features include Database Mirroring, Online Restores, Online Index Operations, Database Mail, SSIS - DTS redesign, Reporting Services, New SQL Server Management Studio, Database Engine Tuning Advisor, SQL Profiler, a new Security model, Native Data Encryption, and many others

### Course Outline.

- New features of SQL Server 2005
- SQL Server Management Studio
- Support Online Index Operations
- Schedule Administrative Tasks
- Implement Snapshot Isolation and Data Partitioning
- Perform Mirrored Backups and Online Restores
- Identify Replication Enhancements
- Implement Database Mirroring
- Utilize the New Security model
- Use the New Version of Data Transformation Services (DTS)
- Implement Native Data Encryption
- Set Up and Use Reporting Services

### Description

#### Course Code

ET : 512

#### Course Level

Fundamental

#### Course Duration

5 Days.

#### Who should attend?

Database administrators with SQL Server 2000 or relational database knowledge who wish to upgrade their skills and leverage the capabilities of SQL Server 2005

#### Pre-requisites

Experience using SQL Server 2000 and an understanding of relational database concepts.

# Course Outline

---

## 1. New Features of SQL Server 2005

- SQL Server Product History
- New Features
- Editions
- System Requirements
- Installation and Upgrade
- Post-installation Steps

## 2. SQL Server Management Studio

- Administrative Utilities
- SQL Server Management Studio
- Upgrading Databases

## 3. Creating and Managing Databases and Database Files

- Internal Data Structures
- Transaction Log Operation
- Creating Databases
- Additional Database Considerations
- Filegroups
- Setting Database Options
- Database Maintenance Plans

## 4. Scheduling Administrative Tasks

- SQL Server Agent
- Implementing Administrative Tasks
- SQL Agent Mail
- Database Mail
- Defining Operators
- Defining Jobs
- Defining Alerts

## 5. Performance and Tuning

- Index Enhancements
- Database Engine Tuning Advisor
- Snapshot Isolation
- Data Partitioning

## 6. Database Backup

- Automatic Recovery
- Recovery Models
- Backup Planning
- How to Do Backups
- Run Mirrored Backups
- Backup Examples
- Mirrored Backups
- Backup Implementation Scenarios

## 7. Database Recovery

- Recovery Process
- Restore Process
- Restore Examples
- Online Restores
- System Database Exceptions

## 8. Protecting and Distributing Your Data

- Mirrored Backups
- Online Restores
- Replication Enhancements
- Database Mirroring

## 9. Security

- Overview of Security
- New Security Model
- System Tables as Views

## 10. SQL Server Integration Services (SSIS)

- Overview of SSIS
- New SSIS Architecture
- SSIS Designer
- Running SSIS Packages

## 11. Set Up and Use Reporting Services

- Reporting Services Overview
- Development Environment
- Report Manager
- Sample Reports

---

Course Code

ET : 512

---

Course Name

Microsoft SQL Server 2005 Administration