

Course 518: Microsoft SQL Server 2005 Administration (4 days)

Course Description...

Microsoft SQL Server 2005 has become the premier database system in the industry. With its increased enterprise data management capabilities and flexible security architecture, Microsoft SQL Server 2005 has become the universal tool for data-driven decision making. This course is designed to help database administrators and their managers run SQL Server 2005 with maximum efficiency, reliability, and performance. Upon completion of this course, students will have the knowledge and skills to administer and automate Microsoft SQL Server 2005 databases and servers.

Learning Objectives...

- Understanding SQL Server 2005 components and architecture.
- Learning installation options
- Configuring multiple server instances
- Managing and manipulating database files and filegroups
- Shrinking and moving databases
- Implementing a multi-level security architecture
- Implementing backup and recovery models
- Configuring a multi-server replication architecture

Who should attend...

In this hands-on course, attendees learn to install, configure and manage SQL Server 2005 and protect the database by implementing a security plan. This course will benefit new administrators to SQL Server, as well as managers and administrators who have worked with SQL Server 2000 for a number of years.

Suggested Prerequisites...

Introduction to Microsoft SQL Server 2005, Course #500.

See next page for a detailed course outline...



Course Outline...

Chapter 1: Introduction to the SQL Server 2005

- What is SQL Server 2005?
- Overview of SQL Server 2005
- SQL Server 2005 Editions
- Understanding the Components of SQL Server 2005
- Understanding SQL Server 2005 Features

Chapter 2: Installing SQL Server 2005

- SQL Server 2005 Installation Options
- Installing SQL Server 2005
- Installing Multiple Instances of SQL Server 2000/2005
- Upgrading from SQL Server 2000

Chapter 3: Configuring SQL Server 2005 Installations

- Adding or Removing SQL Server 2005 Components
- SQL Server Instance Configuration
- SQL Server Surface Area Configuration

Chapter 4: Database Architecture and Maintenance

- Database Files and Filegroups
- Configuring Databases
- Adding and Deleting Database Files
- Shrinking Databases
- Database Snapshots

Chapter 5: Securing SQL Server 2005

- SQL Server 2005 Security Overview
- Windows 2003 and SQL Server 2005 Security Integration
- Creating and Securing Logins
- Creating and Securing Database Users
- Creating and Securing Database Roles
- Creating and Securing Database Schemas
- Assigning Object and Statement Level Permissions

Chapter 6: Automating Administrative Work

- SQL Server Agent Functions and Properties
- Configuring Database Mail
- Creating Operators
- Creating Multi-step Jobs
- Creating Event and Performance Alerts

Chapter 7: Backup and Restore

- Database Backup Types
- Database Recovery Models
- Backing up and Restoring System Databases
- Log Shipping
- Database Mirroring

Chapter 8: Replication

- Replication Types
- Creating Publications
- Configuring Replication Subscriptions