



Maintaining a Microsoft SQL Server 2005 Database

M2780

5 day

Overview :

This five-day instructor-led course provides students with the knowledge and skills to maintain a Microsoft SQL Server 2005 database. The course focuses on teaching individuals how to use SQL Server 2005 product features and tools related to maintaining a database.

Target Audience :

This course is intended for IT Professionals who want to become skilled on SQL Server 2005 product features and technologies for maintaining a database.

At the end of the course, delegates will be able to:

After completing this course, students will be able to:

- Install and configure SQL Server 2005.
- Manage database files.
- Backup and restore databases.
- Manage security.
- Monitor SQL Server.
- Transfer data into and out of SQL Server.
- Automate administrative tasks.
- Replicate data between SQL Server instances.
- Maintain high availability.

Course Content :

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.

- Preparing to Install SQL Server
- Installing SQL Server 2005
- Managing a SQL Server 2005 Installation

Lab 1: Installing and Configuring SQL Server 2005

- Performing an Installation
- Managing SQL Server

Module 2: Managing Databases and Files

This module explains how to manage databases and files.

- Planning Databases
- Creating Databases
- Managing Databases /UL>

Lab 2: Managing Databases and Files

- Creating a Database
- Monitoring and Managing Filegroup Usage
- Viewing Database Metadata

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

Lab 3: Disaster Recovery

- Implementing a Backup Strategy
- Restoring and Recovering a Database
- Performing Piecemeal Backup and Restore Operations
- Restoring the master Database

Module 4: Managing Security

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

- Overview of SQL Server Security
- Protecting the Server Scope
- Protecting the Database Scope
- Managing Keys and Certificates in SQL Server

Lab 4: Managing Security

- Creating Logins and Assigning Server-Scope Permissions
- Creating and Managing Users
- Using a Certificate to Protect Data

Module 5: Monitoring SQL Server

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

- Viewing Current Activity
- Using System Monitor
- Using SQL Server Profiler
- Using DDL Triggers
- Using Event Notifications

Lab 5: Monitoring SQL Server

- Monitoring SQL Server Performance
- Tracing SQL Server Activity
- Implementing DDL Triggers

Module 6: Transferring Data

This module explains how to transfer and transform data.

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

Lab 6: Transferring Data

- Creating an SSIS Package
- Deploying an SSIS Package
- Using SSIS to Extract Data, Perform Lookups, Sort, and Split Data

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For More information, or to book your course, please call Global Knowledge Norway AS at +47 22 95 66 00, email info@globalknowledge.no or visit www.globalknowledge.no

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Course Content :		
<p>Module 7: Automating Administrative Tasks This module explains how to use the SQL Server Agent to automate administrative tasks.</p> <ul style="list-style-type: none"> Automating Administrative Tasks in SQL Server 2005 Configuring the SQL Server Agent Creating Jobs and Operators Creating Alerts Managing Multiple Servers Managing SQL Server Agent Security <p>Lab 7: Automating Administrative Tasks</p> <ul style="list-style-type: none"> Configuring SQL Server Agent Creating Operators and Jobs Creating Alerts 	<p>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.</p> <ul style="list-style-type: none"> Overview of Replication Implementing Replication Configuring Replication in Some Common Scenarios <p>Lab 8: Implementing Replication</p> <ul style="list-style-type: none"> Creating a Publication Creating a Subscription Implementing HTTP Merge Replication 	<p>Module 9: Maintaining High Availability This module explains how to implement high availability technologies with SQL Server 2005.</p> <ul style="list-style-type: none"> Introduction to High Availability Implementing Server Clustering Implementing Database Mirroring Implementing Log Shipping Implementing Peer-to-Peer Replication <p>Lab 9:</p> <ul style="list-style-type: none"> Configuring Database Mirroring to Support Failover Implementing Distributed High Availability

Course Prerequisites :	Testing and Certification :
<p>Before attending this course, students must have:</p> <ul style="list-style-type: none"> Basic knowledge of the Microsoft Windows operating system and its core functionality. Working knowledge of Transact-SQL. Working knowledge of relational databases. Some experience with database design. <p>In addition, it is recommended, but not required, that students have completed:</p> <ul style="list-style-type: none"> Course 2778: Writing Queries Using Microsoft SQL Server 2005 Transact-SQL. Course 2779: Implementing a Microsoft SQL Server 2005 Database. 	

Follow on Courses :

Further Information :

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