

Course Outline

2789- Administering and Automating Microsoft SQL Server 2005 Databases and Servers



Duration: 1 day (6 hours)

Learning Objectives:

- Manage and automate databases and servers
- Manage supporting services

Target Audience:

This course is intended for current professional database administrators who have three or more years of on-the-job experience administering SQL Server database solutions in an enterprise environment

Prerequisites:

- Understand how replication works and how replication is implemented
- Have working knowledge of source control software. Specifically, what it is used for and how it works
- Have working knowledge of networking. Specifically, how to isolate a failure to identify where a failure is occurring
- Have basic working knowledge of security infrastructures. Specifically, Active Directory infrastructure
- Have some experience with database design. Specifically, they must fully understand Third Normal Form (3NF), be able to design a database to 3NF (fully normalized), and know the tradeoffs when backing out of the fully normalized design (denormalization; that is, designing for performance and/or business requirements). They should also be familiar with specific design models, such as Star and Snowflake schemas
- Have basic monitoring and troubleshooting skills
- Have working knowledge of the operating system and platform. That is, how the operating system integrates with the database, what the platform or operating system can do, and the interaction between the operating system and the database
- Have basic knowledge of application architecture. That is, how applications can be designed in three layers, what applications can do, interactions between applications and the database, and interactions between the database and the platform or operating system
- Have a Microsoft Certified Technology Specialist: Microsoft SQL Server 2005 credential, or equivalent experience

In addition, it is recommended, but not required, that students have completed:

- Course 2778, Writing Queries Using Microsoft SQL Server 2005 Transact-SQL
- Course 2779, Implementing a Microsoft SQL Server 2005 Database
- Course 2780, Maintaining a Microsoft SQL Server 2005 Database

Topics Covered:

- Managing and Automating Databases and Servers
 - Planning an Automated System for Database Maintenance.
 - Planning an Automated System Server Maintenance.
 - Documenting Administration and Automation Information.

- Managing and Automating Databases and Servers
- Creating Maintenance Plans.
- Creating Database Change Control Procedures.
- Configuring And Using the SQL H2 Tool.
- Managing SQL Server supporting Services
 - Managing SSIS Packages.
 - Managing Replication.
 - Managing Reporting Services.
 - Managing SQL Server supporting services
 - Moving Packages Between Database Servers.
 - Initializing a Transactional Subscription From a Backup.
 - Configuring Reporting Services.