

## Administering a Microsoft SQL Server 2000 Database

- **Course Number:** 2072
- **Length:** 2 Day(s)

### Certification Exam

This course will help the student prepare for the following Microsoft Certification exams:

- **Exam 70-228 :** System Administration for Microsoft SQL Server 2000

### Course Overview

This course provides students with the knowledge and skills required to install, configure, administer, and troubleshoot the client-server database management system of Microsoft SQL Server 2000.

### Prerequisites

Before attending this course, students must have experience using the Microsoft Windows 2000 operating system to:

- Connect clients running Microsoft Windows-based operating systems to networks and the Internet
- Create and manage user accounts
- Configure and manage disks and partitions, including disk striping and mirroring
- Manage data by using NT file system (NTFS)
- Implement Windows server and client security
- Optimize performance in Windows operating systems

### Audience

This course is intended for database administrators and systems administrators. It will help prepare students for Exam 70-228, which provides core credit toward the MCDBA certification and elective credit toward MCSE certification upon successful completion.

### Course Outline

- Module 1
- SQL Server Overview
- 1.1 What is SQL Server?
- 1.2 Login, User Accounts & Roles
- Module 2
- Planning to Install SQL Server
- 2.1 Hardware requirements and Installation
- 2.2 Review of the Installation
- 2.3 Testing Our Connections
- 2.4 Troubleshooting Your Connection
- Review Quiz
- Module 3
- Managing Database Files
- 1.1 How is Data Stored
- 1.2 Creating Databases
- 1.3 Managing Databases
- 1.4 Creating Filegroups
- 1.5 Filegroup Performance & Fault Tolerance
- Module 4

- Managing Security
- 2.1 Authentication Processing
- 2.2 User Accounts and Roles
- 2.3 Adding Roles & Types of Permissions
- 2.4 Managing Security within SQL Server
- Module 5
- Performing Administrative Tasks
- 1.1 Configuration Tasks
- 1.2 SQL Agent Mail vs SQL Mail
- 1.3 Routine Tasks & Creating Jobs
- 1.4 Alerts
- 1.5 Troubleshooting Alerts
- Review Quiz
- Module 6
- Backing Up Databases
- 1.1 Having a Backup Strategy
- 1.2 Different Ways to Perform Backups
- Module 7
- Restoring Databases
- 2.1 SQL Server Recovery Process
- 2.2 Restoring or Rebuilding Master Database
- Review Quiz
- Module 8
- Monitoring SQL Server Performance
- 1.1 Performance Monitoring of SQL Server
- 1.2 Memory Use, Indexes, Locks & Queries
- Module 9
- Transferring Data
- 2.1 Importing & Exporting Data
- 2.2 DTS (Data Transformation Services)
- 2.3 Tasks
- Review Quiz
- Module 10
- Maintaining High Availability
- 1.1 Availability
- 1.2 Clustering
- Module 11
- Introducing Replication
- 2.1 Considerations for Distributing Data
- 2.2 Replication
- 2.3 Physical replication Models
- Review Quiz