

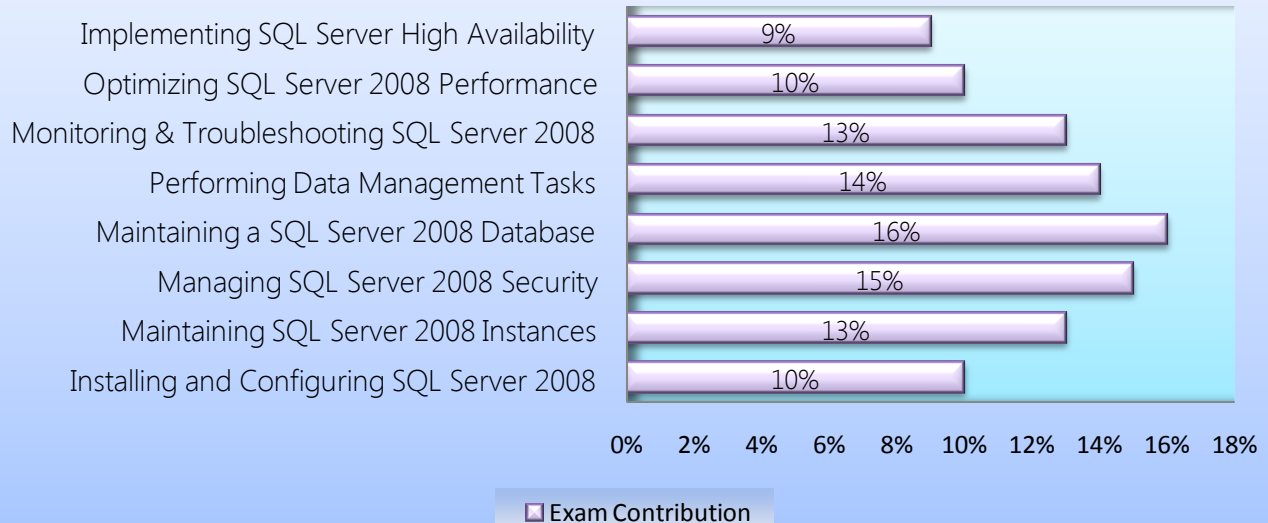


Microsoft SQL Server 2008 Training

by SQLOPERATIONS.COM

Curriculum	SQL Server 2008 Certification Course
Title	Managing and Maintaining SQL Server 2008 Database Server
Exam Credit	70-432 & 70-433
Course Duration	2 Weeks
Description	<p>This two weeks instructor-led course provides students with knowledge and skills to Install, Configure and Manage SQL Server 2008. It also covers: Performing Backups & Restores, Managing SQL Server 2008 Security, and Transferring Data into and out of SQL Server 2008, Automating Administrative Tasks, Replicating Data between SQL Server Instances, and Maintaining High Availability & Monitoring SQL Server 2008 in the enterprise.</p> <p><i>Training provided by</i> Microsoft CERTIFIED <i>Trainer</i></p> <p>This training prepares students for MCTS certification exam 70-432 & 70-433.</p>
Intended Audience	This training is designed to help DBA's, Developers, SQL Server Support staff and IT Professionals working with SQL Server. This is also applicable for individuals planning on upgrading their skills form an older version of SQL Server to SQL Server 2008.
Skills measured	This exam measures your ability to accomplish the technical tasks listed in the following table. The percentages indicate the relative weight of each major topic area on the exam.

SQL Server 2008 Exam Topic Contribution



Skills measured by Exam 70-432

Installing and Configuring SQL Server 2008 (10 percent)

Install SQL Server 2008 and related services.

This objective may include but is not limited to: file locations; default paths; service accounts

Configure SQL Server instances.

This objective may include but is not limited to: sp_configure

Configure SQL Server services.

This objective may include but is not limited to: configuration manager; SQL browser

Configure additional SQL Server components.

This objective may include but is not limited to: SQL Server Integration Services (SSIS), SQL Server Analysis Services (SSAS), SQL Server Reporting Services (SSRS), replication

Implement database mail.

This objective may include but is not limited to: set up and configure

Configure full-text indexing.

This objective may include but is not limited to: enable/disable, index population

Maintaining SQL Server Instances (13 percent)

Manage SQL Server Agent jobs.

This objective may include but is not limited to: create and schedule jobs; notification of job execution; disable/enable jobs; change job step order; logging

Manage SQL Server Agent alerts.

This objective may include but is not limited to: performance condition alerts; SQL event alerts; Windows Management Instrumentation (WMI) alerts

Manage SQL Server Agent operators.

This objective may include but is not limited to: operator schedules; fail safe operator; add a new operator; notification methods

Implement the declarative management framework (DMF).

This objective may include but is not limited to: create a policy; verify a policy; schedule a policy compliance check; enforce a policy; create a condition

Back up a SQL Server environment.

This objective may include but is not limited to: operating system-level concepts

Managing SQL Server Security (15 percent)

Manage logins and server roles.

This objective may include but is not limited to: create logins; disable/enable logins; security model (authentication mode); password policy enforcement; fixed server roles; alter logins

Manage users and database roles.

This objective may include but is not limited to: user mapping; user-defined roles; fixed roles; guest, public, dbo; creating and deleting user roles

Manage SQL Server instance permissions.

This objective may include but is not limited to: logon triggers; permissions vs. fixed role membership; cross-database ownership chaining; impersonation

Skills measured by Exam 70-432

Manage database permissions.

This objective may include but is not limited to: impersonation; cross-database ownership chaining

Manage schema permissions and object permissions.

This objective may include but is not limited to: manage schema ownership

Audit SQL Server instances.

This objective may include but is not limited to: use DDL triggers and logon triggers; C2; common criteria; login failures; event notifications

Manage transparent data encryption.

This objective may include but is not limited to: impact of transparent data encryption on backups

Configure surface area.

This objective may include but is not limited to: sp_configure

Maintaining a SQL Server Database (16 percent)

Back up databases.

This objective may include but is not limited to: full backups; differential backups; transaction log; compressed backups; file and filegroup backups; verifying backup

Restore databases.

This objective may include but is not limited to: online restores; full restores; differential restores; transaction log; file and filegroup restores; verifying restore; tail of the transaction log

Manage and configure databases.

This objective may include but is not limited to: files, file groups, and related options; database options; recovery model; attach/detach data

Manage database snapshots.

This objective may include but is not limited to: create, drop, revert

Maintain database integrity.

This objective may include but is not limited to: DBCC CHECKDB; suspect pages

Maintain a database by using maintenance plans.

This objective may include but is not limited to: Maintenance Plan Wizard; Maintenance Plan Designer

Performing Data Management Tasks (14 percent)

Import and export data.

This objective may include but is not limited to: BCP; BULK INSERT; OPENROWSET; GUI tools

Manage data partitions.

This objective may include but is not limited to: switching data from one partition to another; add a filegroup; alter a partition function; alter a partition scheme

Implement data compression.

This objective may include but is not limited to: sparse columns; page/row

Maintain indexes.

This objective may include but is not limited to: create spatial indexes; create partitioned indexes; clustered and non-clustered indexes; XML indexes; disable and enable indexes; filtered index on sparse columns; indexes with included columns; rebuilding/reorganizing indexes; online/offline

Manage collations.

This objective may include but is not limited to: column collation; database collation; instance collation

Skills measured by Exam 70-432

Monitoring and Troubleshooting SQL Server (13 percent)

Identify SQL Server service problems.

This objective may include but is not limited to: DB Engine service; SQL Agent service; SQL Browser service

Identify concurrency problems.

This objective may include but is not limited to: blocks, locks, deadlocks, activity monitor; relevant Dynamic Management Views

Identify SQL Agent job execution problems.

This objective may include but is not limited to: proxy accounts; credentials; job history

Locate error information.

This objective may include but is not limited to: error log; agent log; job execution history; event logs

Optimizing SQL Server Performance (10 percent)

Implement Resource Governor.

Use the Database Engine Tuning Advisor.

Collect trace data by using SQL Server Profiler.

Collect performance data by using Dynamic Management Views (DMVs).

Collect performance data by using System Monitor.

Use Performance Studio.

Implementing High Availability (9 percent)

Implement database mirroring.

This objective may include but is not limited to: monitoring, configuring, failover

Implement a SQL Server clustered instance.

This objective may include but is not limited to: monitoring, configuring, failover

Implement log shipping.

This objective may include but is not limited to: monitoring, configuring, failover

Implement replication.

This objective may include but is not limited to: monitoring, configuring, failover