

**EXAM 70-432:  
TS: Microsoft SQL Server 2008, Implementation and Maintenance****Audience Profile**

Candidates should have one to two years of experience using SQL Server 2008 or two to three years of experience using a previous version of SQL Server.

Candidates for this exam are IT professionals who have jobs in which database administration is their main area of responsibility, or they work in environments in which databases are central to their job roles. These job roles include the following:

- IT generalists who work in environments in which SQL Server 2008 is part of an overall solution
- IT professionals who manage systems that run SQL Server 2008
- IT professionals who work with third-party applications that are built on SQL Server 2008
- Developers who build applications that use SQL Server 2008

**Credit Toward Certification**

When you pass Exam 70-432: TS: Microsoft SQL Server 2008, Implementation and Maintenance, you complete the requirements for the following certification(s):

- [Microsoft Certified Technology Specialist \(MCTS\): Microsoft SQL Server 2008, Implementation and Maintenance](#)

**Note** This preparation guide is subject to change at any time without prior notice and at the sole discretion of Microsoft. Microsoft exams might include adaptive testing technology and simulation items. Microsoft does not identify the format in which exams are presented. Please use this preparation guide to prepare for the exam, regardless of its format

**Skills Being Measured**

This exam measures your ability to accomplish the technical tasks listed below. The percentages indicate the relative weight of each major topic area on the exam.

**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

- 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

### **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