



## DATA SHEET

## SQL Server 2008: Administration, Troubleshooting, and Recovery

Learn the tools and techniques needed to install, configure, secure, and maintain SQL Server 2008.

The **SQL Server 2008: for Administrators** 4-day Workshop*PLUS* course introduces new features and enhancements in SQL Server 2008, and covers installation and upgrade scenarios, high availability features, backup and restore scenarios, monitoring tools, and security. Students will gain experience and confidence through interactive, break-fix labs designed to provide hands-on experience with optimizing the management of SQL Server 2008. This course is available exclusively for Microsoft Premier Support customers.

This course contains Level-300 content. Please review the student criteria information (below) and contact your Microsoft Services representative to ensure that this workshop is appropriate to the students' experience and technical expertise.

### Workshop*PLUS* Benefits

**Incoming Assessment to baseline knowledge.** It is important for students to get feedback on how much they have learned during the Workshop*PLUS* course. To accomplish that end, the Incoming Assessment measures what students know at the beginning of the course. This 25-question assessment was developed by a team of subject matter experts at Microsoft.

**Outgoing Assessment to measure knowledge transfer.** Students like to know how much they learned as a result of the training. At the end of the Workshop*PLUS* course, students compare their Incoming and Outgoing results. In addition, the instructor reviews the questions and discusses the answers in detail to ensure that students understand the concepts. (Note: Individual results of the Incoming and Outgoing Assessment are not provided to management.)

**Action Planning Exercises to take workshop learnings and apply them to the workplace.** Applying new knowledge to the real world is key to getting the most value out of your training budget. The purpose of the Action Planning Exercises is to identify key problems or proactive opportunities in your workplace — and then to use the skills learned in this course to develop real-world action plans.

## Technical Highlights

The SQL Server 2008: for Administrators workshop provides participants with the skills and techniques to help them understand the following:

- Differences between SQL Server 2005 and SQL Server 2008
- SQL Server 2008 installation and upgrade
- High availability and disaster recovery
- New tools and monitoring
- Security
- Mirroring

## Target Audience

To ensure the high-quality knowledge transfer expected by the attendees of this 4-day workshop, class size is limited to a maximum of 16 students who have at least 1-2 years of experience working with SQL Server as database administrators or database developers.

## Syllabus

This workshop runs a FULL 4 days. Students should anticipate consistent start and end times for each day. Early departure on any day is not recommended.

**Incoming Assessment.** Students take a 25-question quiz that measures their baseline knowledge.

### Module 1: Introduction and Overview of SQL Server 2008.

Provides a brief overview of the enhancements and new features in SQL Server 2008, such as SQL Server database file initialization, enhanced database mirroring, enhanced database mirroring. These features are described in more detail in the subsequent modules.

### Module 2: Installation, Upgrade, and Migration to SQL Server 2008.

Covers techniques for installing, upgrading, and migrating to Microsoft SQL Server 2008. It also covers pre-installation and post-installation tasks that should be performed as part of an upgrade process. In addition, the module introduces the Upgrade Advisor tool used in upgrade process.

### Module 3: Monitoring and Configuring SQL Server.

Covers best practices for monitoring, and monitoring tools such as Activity Monitor, Dynamic Management Views, Management Studio reports, and SQLDIAG.

### Module 4: Disaster Recovery, Backup and Restore, and

**Optimizing Storage.** Covers disaster recovery concepts and planning; database backup and restore enhancements; data file initialization, data and backup compression, database snapshots, and the use of spare columns.

**Module 5: Advanced SQL Server 2008 Management.** Covers advanced methods of administering SQL Server 2008 by utilizing Registered Servers, Target/Master Servers, and Central Management Servers (CMS) to administer multiple servers in an enterprise environment.

### Module 6: Database Mirroring Architecture and

**Enhancements in SQL Server 2008.** Covers SQL Server 2008 enhanced features for familiar technologies, including Database Mirroring, Failover Clustering, Log Shipping, and Replication.

**Module 7: SQL Server 2008 Security.** Introduces new security concepts and the hierarchical security model used in SQL Server 2008.

### Module 8: Implementing Replication in SQL Server 2008.

Provides a high-level overview of replication, which is used by SQL Server 2008 to distribute data and database objects between databases. Replication uses a number of agents that are run as jobs and help track changes and distribute data.

**Module 9: SQL Server 2008 Clustering.** This module provides an overview of clustering. The focus is on the enhancements made to clustering in SQL Server 2008.

**Outgoing Assessment.** Students complete the quiz again and compare Incoming and Outgoing results to measure knowledge transfer.

**Action Planning Exercises.** Students develop Action Plans to improve real-world situations and/or implement proactive measures.

This workshop is just one of many available from Microsoft Services.

For more information, contact your Technical Account Manager or Services representative.