



---

# ADMINISTERING MICROSOFT SQL SERVER DATABASES

## EXAM 70-462

---

This hands-on course provides students with the knowledge and skills to maintain a Microsoft SQL Server 2014 database. The course focuses on teaching individuals how to use SQL Server 2014 product features and tools related to maintaining a database.

Students will learn to describe core database administration tasks and tools, install and configure SQL Server 2014, configure SQL Server databases and storage, plan and implement a backup strategy and much more.

This course is part two of three towards your MCSA: SQL Server 2012 credential.

### COURSE OUTLINE:

#### **Introduction to SQL Server 2014 Database Administration**

- Database Administration Overview
- Introduction to the SQL Server Platform
- Database Management Tools and Techniques

#### **Installing and Configuring SQL Server 2014**

- Planning SQL Server Installation
- Installing SQL Server 2014
- Post-Installation Configuration

#### **Working with Databases and Storage**

- Introduction to Data Storage with SQL Server
- Managing Storage for System Databases
- Managing Storage for User Databases
- Moving Database Files
- Configuring the Buffer Pool Extension

#### **Planning and Implementing a Backup Strategy**

- Understanding SQL Server Recovery Models
- Planning a Backup Strategy



- Backing up Databases and Transaction Logs
- Using Backup Options
- Ensuring Backup Reliability

### **Restoring SQL Server 2014 Databases**

- Understanding the Restore Process
- Restoring Databases
- Advanced Restore Scenarios
- Working with Point-in-Time Recovery

### **Importing and Exporting Data**

- Introduction to Transferring Data
- Importing and Exporting Table Data
- Copying or Moving a Database

### **Monitoring SQL Server 2014**

- Introduction to Monitoring SQL Server
- Dynamic Management Views and Functions
- Performance Monitor

### **Tracing SQL Server Activity**

- Tracing SQL Server Workload Activity
- Using Traces

### **Managing SQL Server Security**

- Introduction to SQL Server Security
- Managing Server-Level Security
- Managing Database-Level Principals
- Managing Database Permissions

### **Auditing Data Access and Encrypting Data**

- Auditing Data Access in SQL Server
- Implementing SQL Server Audit
- Encrypting Databases

### **Performing Ongoing Database Maintenance**

- Ensuring Database Integrity
- Maintaining Indexes



- Automating Routine Database Maintenance

### **Automating SQL Server 2014 Management**

- Automating SQL Server Management
- Implementing SQL Server Agent Jobs
- Managing SQL Server Agent Jobs
- Managing Job Step Security Contexts
- Managing Jobs on Multiple Servers

### **Monitoring SQL Server 2014 by Using Alerts and Notifications**

- Monitoring SQL Server Errors
- Configuring Database Mail
- Configuring Operators, Alerts, and Notifications