

20462D

# Administering Microsoft® SQL Server® 2014 Databases

## **Module 1: Introduction to SQL Server Database Administration**

### **Lesson**

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

### **Lab: Using SQL Server Administrative Tools**

- Module Review and Takeaways

## **Module 2: Installing and Configuring SQL Server**

### **Lesson**

- Planning SQL Server Installation
- Understanding Sets
- Post Installation Configuration

### **Lab: Installing SQL Server**

- Module Review and Takeaways

## **Module 3: Working with Databases and Storage**

### **Lesson**

- 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

### **Lab: Managing Database Storage**

- Module Review and Takeaways

## **Module 4: Planning and Implementing a Backup Strategy**

### **Lesson**

- Understanding SQL Server Recovery Models
- Planning a Backup Strategy
- Backing up Databases and Transaction Logs

- Using Backup Options
- Ensuring Backup Reliability

**Lab: Backing Up Databases**

- Module Review and Takeaways

**Module 5: Restoring SQL Server Databases**

**Lesson**

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

**Lab: Restoring SQL Server Databases**

- Module Review and Takeaways

**Module 6: Importing and Exporting Data**

**Lesson**

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

**Lab: Importing and Exporting Data**

- Module Review and Takeaways

**Module 7: Monitoring SQL Server**

**Lesson**

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

**Lab: Monitoring SQL Server**

- Module Review and Takeaways

**Module 8: Tracing SQL Server Activity**

**Lesson**

- Tracing SQL Server Workload Activity
- Using Traces

**Lab: Tracing SQL Server Workload Activity**

- Module Review and Takeaways

## **Module 9: Managing SQL Server Security**

### **Lesson**

- Introduction to SQL Server Security
- Managing ServerLevel Security
- Managing DatabaseLevel Principals
- Managing Database Permissions

### **Lab: Managing SQL Server Security**

- Module Review and Takeaways

## **Module 10: Auditing Data Access and Encrypting Data**

### **Lesson**

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

### **Lab: Auditing Data Access and Encrypting Data**

- Module Review and Takeaways

## **Module 11: Performing Ongoing Database Maintenance**

### **Lesson**

- Ensuring Database Integrity
- Maintaining Indexes
- Automating Routine Database Maintenance

### **Lab: Performing Ongoing Database Maintenance**

- Module Review and Takeaways

## **Module 12: Automating SQL Server Management**

### **Lesson**

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

### **Lab: Automating SQL Server Management**

- Module Review and Takeaways
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### **Module 13: Monitoring SQL Server with Notifications and Alerts**

#### **Lesson**

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

#### **Lab: Using Notifications and Alerts**

- Module Review and Takeaways