



Course 20462D

Administering Microsoft® SQL Server® 2014 Databases

Course Length : 40 Hours
Professional Series : 5 Days
Academic Series : 6 Weeks

Module 1:

Introduction to SQL Server 2014 Database Administration

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

Module 2:

Installing and Configuring SQL Server 2014

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

Module 3:

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

Module 4:

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

Module 5:

Restoring SQL Server 2014 Databases

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

Module 6:

Importing and Exporting Data

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

Module 7:

Monitoring SQL Server 2014

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

Module 8:

Tracing SQL Server Activity

- Tracing SQL Server Workload Activity
- Using Traces

Module 9:

Managing SQL Server Security

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

Module 10:

Auditing Data Access and Encrypting Data

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

Module 11:

Performing Ongoing Database Maintenance

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

Module 12:

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

Module 13:

Monitoring SQL Server 2014 by Using Alerts and Notifications

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