

(20465D) –Developing Microsoft SQL Server 2014 Databases

OBJECTIVE

The focus of this three-day instructor-led course is on planning and implementing enterprise database infrastructure solutions by using SQL Server 2014 and other Microsoft technologies. It describes how to consolidate SQL Server workloads and how to plan and implement high availability and disaster recovery solutions.

Note: This course is designed for customers who are interested in learning SQL Server 2012 or SQL Server 2014. It covers the new features in SQL Server 2014, but also the important capabilities across the SQL Server data platform.

COURSE TOPICS

Module 1: Introduction to Enterprise Data Architecture

- Considerations for Enterprise Data
- Assessing an Existing Infrastructure

Module 2: Multi-Server Configuration Management

- Policy-Based Management
- Microsoft System Center

Module 3: Monitoring SQL Server 2014 Health

- Introduction to Health Monitoring
- Data Collector
- SQL Server Utility

Module 4: Consolidating Database Workloads with SQL Server 2014g

- Considerations for Database Server Consolidation
- Managing Resources in a Consolidated Database Infrastructure

Module 5: Introduction to Cloud Data Solutions

- Overview of Cloud Computing
- SQL Server in a Private Cloud

Module 6: Introduction to High Availability in SQL Server 2014

- High Availability Concepts and Options in SQL Server 2014
- Log Shipping

Module 7: Clustering with Windows Server and SQL Server 2014

- Introduction to Windows Server Failover Clustering
- SQL Server AlwaysOn Failover Cluster Instances

Module 8: AlwaysOn Availability Groups

- Introduction to AlwaysOn Availability Groups
- Working with AlwaysOn Availability Groups
- Considerations for Using AlwaysOn Availability Groups

Module 9: Planning High Availability and Disaster Recovery

- High Availability and Disaster Recovery with SQL Server 2014
- SQL Server High Availability and Disaster Recovery Solutions

Module 10: Replicating Data

- SQL Server Replication
- Planning Replication

PREREQUISITES

This course requires that you meet the following prerequisites:

- At least 2 years' experience of working with relational databases, including:
- Planning and implementing databases
- Managing databases
- Querying with Transact-SQL
- Some basic knowledge of high availability and disaster recovery

TRAINING APPROACH

This course includes lectures, course notes, exercises and hands-on practice.

COURSE DURATION

24 Hours (in 3 days)

Time: 9:00am to 6:00pm

Lunch Time: 1:00pm to 2:00pm

CERTIFICATION COMPLETION

A certificate of completion is provided for all trainees attending the course