

5 Days

## 20465: Designing Database Solutions for Microsoft SQL Server

Designing Database Solutions for Microsoft SQL Server Certification Course 20465D is an expert-level program that lays emphasis on planning, design and implementing database solutions through SQL Server 2014 technologies. The course will teach you to plan and implement consolidation strategies, high availability solutions, and disaster recovery solutions. This training course is intended for professionals who seek interest in learning SQL Server 2012 or 2014, with new features in SQL 2014 version.

Note\* - This training is part 2 of the series of two courses for MCSE: Data Platform for SQL Server 2014. Participants need to qualify certification for both the course exams to earn the credentials of MCSE.

## Course Details

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### Course Outline

#### Module 1: Introduction to Enterprise Data Architecture

This module lays emphasis on the enterprise data architecture, its provisioning, and management.

##### Lessons

- Considerations for Enterprise Data
- Assessing an Existing Infrastructure

#### Module 2: Multi-Server Configuration Management

This module explains Policy-Based Management in SQL Server and describes how it can be used together with enterprise configuration management tools

##### Lessons

- Microsoft System Center
- Policy-Based Management

#### Module 3: Monitoring SQL Server 2014 Health

This module explains Data Collector and the SQL Server Utility Control Point (UCP), two features of SQL Server 2014 to perform in-depth health monitoring across the enterprise.

##### Lessons

- [Introduction to Health Monitoring](#)
- [Data Collector](#)
- [SQL Server Utility](#)

#### **Module 4: Consolidating Database Workloads with SQL Server 2014**

This module describes the benefits of consolidating database workloads by using SQL Server 2014, and the different techniques for implementing and managing a consolidation strategy.

##### **Lessons**

- [Considerations for Database Server Consolidation](#)
- [Managing Resources in a Consolidated Database Infrastructure](#)

#### **Module 5: Introduction to Cloud Data Solutions**

This module introduces fundamental concepts of cloud computing and outlines how to include SQL Server 2014 in a private cloud infrastructure.

##### **Lessons**

- [SQL Server in a Private Cloud](#)
- [Cloud Computing Overview](#)

#### **Module 6: Introduction to High Availability in SQL Server 2014**

This module explains the different ways that you can implement high availability by using SQL Server 2014 and how to use log shipping to promote resilience for individual user databases.

##### **Lessons**

- [Log Shipping](#)
- [High Availability Concepts and Options in SQL Server 2014](#)

#### **Module 7: Clustering with Windows Server and SQL Server 2014**

This module describes how Windows Server Failover Clustering and SQL Server AlwaysOn Failover Cluster Instances work, and implementing clustering to protect service availability.

##### **Lessons**

- [SQL Server AlwaysOn Failover Cluster Instances](#)
- [Introduction to Windows Server Failover Clustering](#)

#### **Module 8: AlwaysOn Availability Groups**

This module discusses AlwaysOn Availability Groups in SQL Server 2014, explains the key concepts of AlwaysOn Availability Groups.

##### **Lessons**

- [Introduction to AlwaysOn Availability Groups](#)
- [Considerations for Using AlwaysOn Availability Groups](#)
- [Working with AlwaysOn Availability Groups](#)

#### **Module 9: Planning High Availability and Disaster Recovery**

This module explains the planning considerations for high availability and disaster recovery, also provides common implementation scenarios for hybrid, on-premises, and Microsoft Azure environments.

#### Lessons

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

### Module 10: Replicating Data

This module explains the SQL Server replications and explains the agents used to implement replication.

#### Lessons

- SQL Server Replication
- Planning Replication

## Who Should Attend

The Microsoft SQL Server Designing Databases Solutions course is intended for database professionals who need who plan, manage, and implement database solutions. Primary responsibilities include:

- Planning and implementing database infrastructure.
- Planning and implementing disaster recovery solutions.
- Planning and implementing high availability solutions.
- Planning and implementing consolidation strategies.

## Pre Requisite

This course requires that you meet the following prerequisites:

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

# Exams

Microsoft Certified Professional (MCP) [70-465]

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