

## (20765A) – Provisioning SQL Databases

### OBJECTIVE

This instructor-led course provides students with the knowledge and skills to provision a Microsoft SQL Server 2016 database. The course covers SQL Server 2016 provision both on-premise and in Azure, and covers installing from new and migrating from an existing install.

### COURSE TOPICS

#### Module 1: SQL Server 2016 Components

- Introduction to the SQL Server Platform
- Overview of SQL Server Architecture
- SQL Server Services and Configuration Options

#### Module 2: Installing SQL Server 2016

- Considerations for installing SQL Server
- TempDB Files
- Installing SQL Server 2016
- Automating Installation

#### Module 3: Upgrading SQL Server to SQL Server 2016

- Upgrade Requirements
- Upgrade SQL Server Services
- Migrating SQL Server Data and Applications

#### Module 4: Deploying SQL Server on Microsoft Azure

- SQL Server Virtual Machines in Azure
- Deploying an Azure SQL Database
- Migrating an On-Premise Database to an Azure SQL Database

#### Module 5: Working with Databases

- Overview of SQL Server Databases
- Creating Databases
- Database Files and Filegroups
- Moving Database Files
- Buffer Pool Extension

## Module 6: Database Storage Options

- SQL Server storage Performance
- SMB Fileshare
- SQL Server Storage in Azure
- Stretch Databases

## Module 7: Performing Database Maintenance

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

## PREREQUISITES

This course requires that you meet the following prerequisites:

- Basic knowledge of the Microsoft Windows operating system and its core functionality.
- Working knowledge of Transact-SQL.
- Working knowledge of relational databases.
- Some experience with database design

## TRAINING APPROACH

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

## COURSE DURATION

12 Hours (in 2 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