



<b>Kursus</b> <b>5 dage</b> Nr. 87769 A	<b>DKK 19.499</b> ekskl. moms
<b>Dato</b>	<b>Sted</b>
08-02-2021	Taastrup
22-03-2021	Aarhus
20-05-2021	Taastrup
30-08-2021	Taastrup
28-10-2021	Aarhus

# Administering a SQL Database Infrastructure [20764]

Lær, hvordan du administrerer, konfigurerer og vedligeholder en Microsoft SQL Server 2016 databaseserver. Kurset er også relevant, hvis du udvikler databaseløsninger, som anvender en SQL Server Database.

## Forudsætninger

Du forventes at have grundlæggende kendskab til Transact-SQL og relationelle databaser og evt. lidt erfaring med databasedesign.

Kurset er for dig, der administrerer og vedligeholder en SQL Server Database eller udvikler databaseløsninger med indhold herfra.

## Indhold

### Module 1: Authenticating and Authorizing Users

- Authenticating connections to SQL Server
- Authorizing logins to access databases
- Authorization across servers
- Partially contained databases

### Module 2: Assigning Server and Database Roles

- Working with server roles



- Working with Fixed database roles
- Creating user-defined database roles

#### **Module 3: Authorizing Users to Access Resources**

- Authorizing user access to objects
- Authorizing users to execute code
- Configuring permissions at the schema level

#### **Module 4: Protecting Data with Encryption and Auditing**

- Options for auditing data access in SQL Server
- Implementing SQL Server audit
- Managing SQL Server audit
- Protecting data with encryption

#### **Module 5: SQL Server Recovery Models**

- Backup strategies
- Understanding SQL Server transaction log in
- Planning a SQL Server backup strategy

#### **Module 6: Backup of SQL Server Databases**

- Backing up databases and transaction logs
- Managing database backups
- Working with backup options

#### **Module 7: Restoring SQL Server Databases**

- Understanding the restore process
- Restoring databases
- Working with point-in-time recovery
- Restoring system databases and individual files

#### **Module 8: Automating SQL Server Management**

- Automating SQL Server management
- Working with SQL Server agent
- Managing SQL Server agent jobs
- Multi-server management

#### **Module 9: Configuring Security for SQL Server Agent**

- Understanding SQL Server Agent Security
- Configuring credentials
- Configuring proxy accounts

#### **Module 10: Monitoring SQL Server with Alerts and Notifications**

- Configuration of database mail
- Monitoring SQL Server errors
- Configuring operators, alerts, and notifications
- Alerts in Azure SQL database

#### **Module 11: Introduction to Managing SQL Server by using PowerShell**

- Configure SQL Server using PowerShell
- Administer SQL Server using PowerShell
- Maintain the SQL Server environment using PowerShell

- Managing Azure SQL Server databases using PowerShell

#### Module 12: Tracing Access to SQL Server

- Capturing activity using SQL Server profiler
- Improving performance with the database engine tuning advisor
- Working with tracing options
- Distributed replay
- Monitoring locks

#### Module 13: Monitoring SQL Server

- Monitoring activity
- Capturing and managing performance data
- Analyzing collected performance data
- SQL Server utility

#### Module 14: Troubleshooting SQL Server

- SQL Server troubleshooting methodology
- Resolving service related issues
- Resolving login and connectivity issues
- Troubleshooting common issues

#### Module 15: Importing and Exporting Data

- Transferring data to/from SQL Server
- Importing and exporting table data
- Using BCP and BULK INSERT to import data
- Deploying and upgrading data-tier applications

## Microsoft Software Assurance Vouchere

Kurset kan betales med 5 SA vouchere.

## Certificering

Kurset leder hen mod eksamen [70-764 Administering a SQL Database Infrastructure](#). Eksamen bestilles og betales særskilt.

Eksamen 70-764 er en del af certificeringen **MCSA SQL 2016 Database Administration**.

[Læs mere om IT-certificering her.](#)

## Underviser

Undervisningen varetages af en erfaren underviser fra Teknologisk Instituts netværk bestående af branchens dygtigste undervisere.

## Har du faglige spørgsmål så kontakt



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