

# Administering an SQL Database Infrastructure (ehem. MOC 20764)

## Überblick

Dieser Kurs vermittelt den Teilnehmern die nötigen Kenntnisse für die Administration einer SQL-Server-Datenbankinfrastruktur.



Dauer:  
5 Tage



Preis:  
2.550,00 € (3.034,50 € inkl. MwSt.)

## Kursinhalt

### SQL Server Security

- Authenticating Connections to SQL Server
- Authorizing Logins to Connect to databases
- Authorization Across Servers
- Partially Contained Databases

### Assigning Server and Database Roles

- Working with server roles
- Working with Fixed Database Roles
- Assigning User-Defined Database Roles

### Authorizing Users to Access Resources

- Describe and use server roles to manage server-level security
- Describe and use fixed database roles
- Use custom database roles and application roles to manage database-level security

### 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

### Recovery Models and Backup Strategies

- Understanding Backup Strategies
- SQL Server Transaction Logs
- Planning Backup Strategie

### Backing Up SQL Server Databases

- Backing Up Databases and Transaction Logs
- Managing Database Backups
- Advanced Database Options

## Restoring SQL Server Databases

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

## Automating SQL Server Management

- Automating SQL Server management
- Working with SQL Server Agent
- Managing SQL Server Agent Jobs
- Multi-server Management

## Configuring Security for SQL Server Agent

- Understanding SQL Server Agent Security
- Configuring Credentials
- Configuring Proxy Accounts

## Monitoring SQL Server with Alerts and Notifications

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

## Introduction to Managing SQL Server by using PowerShell

- Getting Started with Windows PowerShell
- Configure SQL Server using PowerShell
- Administer and Maintain SQL Server with PowerShell
- Managing Azure SQL Databases using PowerShell

## Tracing Access to SQL Server with Extended events

- Extended Events Core Concepts
- Working with Extended Events

## Monitoring SQL Server

- Monitoring activity
- Capturing and Managing Performance Data
- Analyzing Collected Performance Data
- SQL Server Utility

## Troubleshooting SQL Server

- A Trouble Shooting Methodology for SQL Server
- Resolving Service Related Issues
- Resolving Connectivity and Log-in issues

## Importing and Exporting Data

- Transferring Data to and from SQL Server
- Importing and Exporting Table Data
- Using bcp and BULK INSERT to Import Data
- Deploying and Upgrading Data-Tier Application

- Erste Erfahrungen mit dem Datenbankdesign
- Erfahrung mit relationalen Datenbanken
- Erfahrung mit Transact-SQL
- Grundkenntnisse über das Windows-Betriebssystem und seine Kernfunktionalität

## Zielgruppe

Dieser Kurs richtet sich an Datenbankadministratoren und Datenbankentwickler, die SQL-Server Datenbankinfrastrukturen administrieren und pflegen möchten.

## Termine

### Administering an SQL Database Infrastructure (ehem. MOC 20764)

20.07.2026 - 24.07.2026 Mainz-Wiesbaden

31.08.2026 - 04.09.2026 Mainz-Wiesbaden

07.12.2026 - 11.12.2026 Mainz-Wiesbaden

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