

# Microsoft SQL Server Monitoring and Performance Tuning

Course code: GOC630

The course is designed for database professionals who have experience with the management or development of a database system and want to be able to effectively monitor and tune the performance of the database system.

| Affiliate  | Duration | Course price | ITB |
|------------|----------|--------------|-----|
| Praha      | 4        | 20 800 Kč    | 40  |
| Brno       | 4        | 20 800 Kč    | 40  |
| Bratislava | 4        | 900 €        | 40  |

The prices are without VAT.

## Course terms

| Date                | Duration | Course price | Type     | Course language | Location                   |
|---------------------|----------|--------------|----------|-----------------|----------------------------|
| 02.12.2024          | 4        | 20 800 Kč    | Presence | CZ/SK           | GOPAS Brno                 |
| <b>G</b> 10.12.2024 | 4        | 900 €        | Online   | CZ/SK           | GOPAS Bratislava online    |
| <b>G</b> 10.12.2024 | 4        | 20 800 Kč    | Online   | CZ/SK           | GOPAS Praha online         |
| 20.01.2025          | 4        | 20 800 Kč    | Presence | CZ/SK           | GOPAS Praha                |
| 10.02.2025          | 4        | 900 €        | Online   | CZ/SK           | GOPAS Bratislava online    |
| 11.03.2025          | 4        | 20 800 Kč    | Presence | CZ/SK           | GOPAS Brno                 |
| 31.03.2025          | 4        | 900 €        | Presence | CZ/SK           | GOPAS Bratislava prezenčne |
| 22.04.2025          | 4        | 20 800 Kč    | Presence | CZ/SK           | GOPAS Praha                |
| 02.06.2025          | 4        | 900 €        | Online   | CZ/SK           | GOPAS Bratislava online    |

The prices are without VAT.

## Who is the course for

The course is designed for database professionals who have experience with the management or development of a database system and want to be able to effectively monitor and tune the performance of the database system.

## What we teach you

- We will introduce you into the SQL Server sources and how they are used
- Methods for SQL Server monitoring
- Evaluation of measured values and identification of the problem
- Recommended configurations and solving methods

## Required skills

- Basic knowledge of Microsoft Windows operating systems
- The ability to understand and work with T-SQL at the level of the MOC 2778 or GOC277 course
- Knowledge in the field of database administration at the level of the course MOC 6231

## Course outline

### Basic SQL Server sources and the work with them

- SQL Server Architecture
- Memory Usage
- Working with the repository
- CPU and queries execution
- Object Lock and Latches

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# Microsoft SQL Server Monitoring and Performance Tuning

- Tempdb System Database

## Methods for Monitoring SQL Server

- Performance Monitoring
- SQL Profiler
- Dynamic Management Views
- Evaluation of measured values and identification of the problem
- Activity monitoring
- Data Collector
- SQLDiag
- Extended Events
- SQLIO

## Evaluation of measured values and identification of the problem

- Information about performance counters and their characteristics
- Recommended counters ' values
- Identifying of possible bottlenecks and problems

## Recommended configurations and methods of solution

- SQL Server configuration and recommended procedures
- Database configuration and recommended procedures
- Identification of possible bottlenecks and problems

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