



MFE-IT

Reference: KJ/EN/SQLS

SQL Server 2025 Training Course

Master the Administration, Security and Performance of Your
Databases

Duration: 4 Days | Hours: 28 h

Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice

DESCRIPTION

SQL Server is an essential foundation of Microsoft information systems. From database management to security, backup and monitoring, the SQL Server administrator plays a strategic role — and SQL Server 2025 raises the bar with native vector search for AI use cases, deeper Azure and Fabric integration, T-SQL improvements and new security options.

This SQL Server 2025 training course offers you a comprehensive introduction, with a focus on high availability, security, monitoring and performance optimisation. It alternates between theory, best practices and practical workshops in realistic environments — covering both fresh installations and migrations from earlier SQL Server versions.

LEARNING OBJECTIVES

By the end of this training course, participants will be able to:

- Install and configure a SQL Server 2025 server
- Manage databases, files, schemas, users and roles
- Implement an effective backup and restore strategy
- Ensure data and access security
- Diagnose and optimise performance
- Monitor and audit server and database activity

PREREQUISITES

- General knowledge of relational databases
- Proficiency with the Windows Server environment
- Basic knowledge of SQL recommended

Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.

TARGET AUDIENCE

DBAs, IT administrators and systems engineers managing or migrating to SQL Server 2025.

DETAILED PROGRAMME

The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

Module 1 – Architecture and Installation

- SQL Server editions and licensing options
- Deployment models, installation, service and port configuration
- Tools: SQL Server Management Studio (SSMS) and Azure Data Studio

Module 2 – Database Management

- Database creation and file management
- Transaction logs, tables and indexes
- Partitioning strategies for large datasets

Module 3 – Security and Access Management

- Users, roles and SQL/Windows authentication
- Encryption: TDE and Always Encrypted
- Auditing and advanced security principles

Module 4 – Backup and Restore

- Backup plans and BACKUP / RESTORE commands
- Backup types: full, differential, log
- Restore testing and transaction log management

Module 5 – Supervision and Maintenance

- SQL Server Agent: jobs and alerts
- Maintenance plans and index management
- System and application logs

Module 6 – Optimisation and High Availability

- Tuning and performance analysis (Query Store, Execution Plan)
- Introduction to Always On Availability Groups
- Failover clustering and replication options

Module 7 – What's New in SQL Server 2025

- Native vector search for AI and RAG scenarios
- T-SQL improvements: JSON, regular expressions
- Azure Arc and Microsoft Fabric integration

TEACHING METHODS

Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: contact@mfe-it.com.

PRACTICAL INFORMATION

Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

Certification and Validation

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

Benefits for Participants

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

Benefits for the Organisation

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts