

SQL Server High Availability & Disaster Recovery Mastery

IT & IT Engineering
London (UK)
08 - 12 Sep 2025

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SQL Server High Availability & Disaster Recovery Mastery

Ref: 321638_142697 **Date:** 08 - 12 Sep 2025 **Location:** London (UK) **Fees:** 4400 **Euro**

Course Description

This comprehensive 5-day course equips database professionals with advanced skills to design, implement, and manage high availability and disaster recovery solutions for SQL Server. Participants will gain hands-on experience with AlwaysOn Availability Groups, Failover Cluster Instances, and various replication techniques to ensure continuous database operations and minimize downtime in critical business environments.

Learning Objectives

- Understand SQL Server high availability and disaster recovery concepts and architectures
- Implement and manage AlwaysOn Availability Groups for enhanced database availability
- Configure and maintain Failover Cluster Instances for SQL Server
- Design and implement effective backup and recovery strategies
- Master various replication techniques for data distribution and disaster recovery

Course Modules

Day 1: Introduction to SQL Server High Availability and Disaster Recovery

- HA/DR concepts and terminology
- SQL Server HA/DR feature overview
- Assessing business requirements for HA/DR
- Planning HA/DR architectures

Day 2: Implementing AlwaysOn Availability Groups

- AlwaysOn Availability Groups architecture
- Configuring and managing availability groups
- Implementing read-scale availability groups
- Monitoring and troubleshooting availability groups

Day 3: Failover Cluster Instances and Windows Server Failover Clustering

- Failover Clustering concepts and architecture
- Installing and configuring a Failover Cluster Instance
- Managing and maintaining FCIs
- Implementing multi-subnet clustering

A graphic of a chessboard with several pawns. In the foreground, a gold king piece stands prominently. Behind it, a silver pawn and a gold pawn are visible. The background shows concentric circles emanating from the king piece.

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Day 4: Backup and Recovery Strategies

- Designing effective backup strategies
- Implementing advanced backup techniques
- Point-in-time recovery and log shipping
- Database snapshots and recovery models

Day 5: Replication and Additional HA/DR Techniques

- SQL Server replication architecture and types
- Implementing transactional and merge replication
- Database mirroring and log shipping
- Combining HA/DR technologies for comprehensive solutions

Practical Wins for Participants

- Ability to design and implement robust HA/DR solutions for SQL Server environments
- Hands-on experience with configuring and managing AlwaysOn Availability Groups
- Proficiency in implementing and maintaining Failover Cluster Instances
- Skills to optimize backup and recovery strategies for minimal data loss and downtime

A graphic of a chessboard with several chess pieces. A gold king piece is prominent in the foreground, with a silver pawn and a silver knight nearby. In the background, there are concentric circles emanating from a point, suggesting a signal or a strategic move.

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