

# SQL Server High Availability & Disaster Recovery Mastery

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London (UK)

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## SQL Server High Availability & Disaster Recovery Mastery

**2022-1638-1663-52** Location: London (UK) Fees: 6100 GBP

### Why This Course

In today's data-driven organizations, database availability and resilience are critical. This intensive 5-day program equips database professionals with advanced skills to design, implement, and manage high availability HA and disaster recovery DR solutions for SQL Server. Participants will gain hands-on experience with industry-standard technologies such as AlwaysOn Availability Groups, Failover Cluster Instances, and replication methods, ensuring business continuity and minimal downtime in critical environments.

### What You'll Learn and Practice

By attending this program, you will be able to:

- Understand core SQL Server HA/DR concepts, architectures, and business requirements.
- Implement and manage AlwaysOn Availability Groups for maximum database availability.
- Configure and maintain Failover Cluster Instances FCIs and multi-subnet clusters.
- Design and execute robust backup and recovery strategies, including point-in-time recovery.
- Apply replication techniques, database mirroring, and integrated HA/DR solutions.

### The Program Flow

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

- HA/DR concepts and key terminology
- Overview of SQL Server HA/DR features
- Assessing business requirements for HA/DR solutions
- Planning effective HA/DR architectures

#### Day 2: Implementing AlwaysOn Availability Groups

- Architecture and components of AlwaysOn Availability Groups
- Configuring and managing availability groups
- Implementing read-scale availability groups for reporting
- Monitoring, troubleshooting, and maintaining availability groups

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A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver, set against a background of concentric circles.

### **Day 3: Failover Cluster Instances and Windows Server Failover Clustering**

- Failover clustering concepts and architecture
- Installing and configuring Failover Cluster Instances FCIs
- Managing and maintaining cluster nodes
- Implementing multi-subnet clustering for disaster resilience

### **Day 4: Backup and Recovery Strategies**

- Designing effective backup strategies aligned with business requirements
- Advanced backup techniques and configurations
- Point-in-time recovery, log shipping, and database snapshots
- Recovery models and disaster recovery planning

### **Day 5: Replication and Additional HA/DR Techniques**

- SQL Server replication architecture and types transactional, merge
- Database mirroring and log shipping
- Combining HA/DR technologies for comprehensive solutions
- Practical exercises integrating multiple HA/DR strategies

## **Individual Impact**

Participants will leave the course with:

- The ability to design and implement robust HA/DR solutions tailored to SQL Server environments.
- Hands-on experience configuring and managing AlwaysOn Availability Groups and FCIs.
- Advanced skills in backup, recovery, and replication strategies to minimize data loss.
- Confidence in ensuring business continuity and database resilience in critical operations.

## **Organizational Impact**

Organizations will benefit from:

- Enhanced database availability and minimized downtime.
- Improved resilience against system failures and disasters.
- Streamlined HA/DR operations with optimized SQL Server configurations.
- Teams equipped to implement best practices for mission-critical database environments.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn nearby. The background features concentric circles and a checkered pattern.

## Training Methodology

- Hands-on lab exercises for AlwaysOn Availability Groups, FCIs, and replication
- Real-world scenario simulations for backup, recovery, and disaster planning
- Case studies highlighting HA/DR challenges and solutions
- Group problem-solving and guided implementation exercises

## Beyond the Course

By the end of the five days, participants will be fully prepared to:

- Implement high-availability solutions for SQL Server with confidence.
- Design disaster recovery strategies that minimize downtime and data loss.
- Integrate multiple HA/DR technologies into cohesive, business-ready solutions.
- Contribute to a resilient, high-performing database environment within their organization.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn nearby. The board is checkered, and there are concentric circles in the background.