

# Building and Managing High Availability Solutions With SQL Server 2022

*Dubai (UAE)*

*5 - 9 January 2025*

UK Traininig

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# Building and Managing High Availability Solutions With SQL Server 2022

Code: IT28 From: 5 - 9 January 2025 City: Dubai (UAE) Fees: 4600 Pound

## Introduction

This intensive course is designed to provide participants with advanced knowledge and practical skills in building and managing high-availability solutions using SQL Server 2022. Through a blend of theoretical discussions, hands-on exercises, and real-world scenarios, participants will gain in-depth insight into the latest features of SQL Server 2022 to ensure maximum availability, reliability, and resilience for critical databases.

## Course Objectives

- Understand high availability and disaster recovery concepts within the context of SQL Server 2022.
- Explore advanced features and new enhancements in SQL Server 2022 to improve high-availability solutions.
- Learn to design and implement high-availability architectures that align with specific business requirements.
- Master the configuration and management of Always On Availability Groups to ensure seamless failover and data protection.
- Gain skills in using SQL Server features like Failover Clustering and Log Shipping to secure high availability.
- Develop skills in monitoring, troubleshooting, and optimizing solutions to ensure peak performance.
- Learn best practices for maintaining and updating high-availability environments to meet evolving business needs.
- Prepare for real-world challenges and scenarios related to deploying and managing high availability.

## Course Outlines

### Day 1: Introduction to High Availability Concepts

- Overview of high availability and disaster recovery HA/DR concepts.
- Understanding the importance of high availability in modern database environments.
- Review of SQL Server 2022 features and updates related to high availability.

### Day 2: Always On Availability Groups

- In-depth exploration of Always On Availability Groups architecture.
- Configuring and setting up Availability Groups.
- Managing Availability Group replicas and failover modes.
- Monitoring and troubleshooting Availability Groups.

### Day 3: Failover Clustering

- Introduction to Failover Clustering in SQL Server 2022.

- Configuring and managing Failover Clusters for high availability.
- Understanding quorum models and configurations.
- Best practices for deploying Failover Clustering in production environments.

#### Day 4: Log Shipping and Database Mirroring

- Overview of Log Shipping and Database Mirroring techniques.
- Configuring and managing Log Shipping for disaster recovery.
- Implementing Database Mirroring for high availability and failover.
- Comparing Log Shipping, Database Mirroring, and Always On Availability Groups.

#### Day 5: Advanced Topics and Best Practices

- Performance tuning and optimization for high-availability solutions.
- Using automation and scripting to manage high-availability environments.
- Disaster recovery planning and testing.
- Future trends and considerations in high availability using SQL Server 2022.

#### Conclusion

This course is an ideal opportunity to gain in-depth knowledge about SQL Server 2022, from setup to advanced high-availability management practices, ensuring seamless workflow in database environment



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