

Building and Managing High Availability Solutions With SQL Server 2022

Barcelona (Spain)

4 - 8 August 2025

UK Traininig

PARTNER



Building and Managing High Availability Solutions With SQL Server 2022

Code: IT28 From: 4 - 8 August 2025 City: Barcelona (Spain) Fees: 5100 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



Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Anney (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)
(Netherlands)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



Barcelona (Spain)



Munich (Germany)



Geneva (Switzerland)



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels (Belgium)



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich (Switzerland)



Manchester (UK)



Milan (Italy)



Blackbird Training Cities

USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

Africa



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney (Australia)



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Pulau Ujong (Singapore)



Jakarta (Indonesia)



Amman (Jordan)



Beirut (Lebanon)



Blackbird Training Cities

Asia



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



BLACKBIRD
FOR TRAINING



International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

UK Training

PARTNER

