



MICROSOFT TRAINING

Microsoft Sql Alwayson High Availability Course

Implement robust SQL Server Always On High Availability solutions. Ensure business continuity and data protection in critical environments.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intensive 2-hour Microsoft SQL AlwaysOn High Availability course is meticulously designed for IT professionals aiming to master the gold standard in database uptime and disaster recovery for SQL Server. You will delve into the core concepts and practical implementation of AlwaysOn Availability Groups, Microsoft's premier solution for ensuring continuous availability of critical databases. The course provides a deep understanding of how to configure, manage, and monitor robust high availability and disaster recovery environments, minimizing downtime and safeguarding your most valuable data assets. By completing this course, you will acquire the essential skills to build resilient SQL Server infrastructures that can withstand failures and ensure business continuity. You will learn to architect and deploy highly available solutions, manage automatic and manual failovers, and optimize performance for critical applications. This expertise is crucial for any organization that relies on SQL Server for mission-critical operations, empowering you to significantly enhance system reliability and data protection within your IT landscape.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to SQL Server High Availability

- Understanding the Need for High Availability and Disaster Recovery
- Overview of SQL Server HA/DR Options (AlwaysOn, Failover Clustering, Log Shipping)
- Introduction to AlwaysOn Availability Groups: Concepts and Benefits

02 Module 2: AlwaysOn Availability Groups Architecture

- Windows Server Failover Clustering (WSFC) Essentials for AlwaysOn
- Availability Group Components: Replicas, Listeners, Endpoints
- Quorum Mechanisms and Shared Storage Considerations
- Understanding Synchronous vs. Asynchronous Commit Modes

03 Module 3: Implementing AlwaysOn Availability Groups

- Prerequisites for AlwaysOn Setup (Windows & SQL Server)
- Configuring WSFC for Availability Groups
- Creating and Configuring an Availability Group
- Adding Databases and Replicas to an Availability Group
- Configuring an Availability Group Listener

04 Module 4: Managing and Monitoring AlwaysOn

- Performing Manual and Automatic Failovers
- Monitoring Availability Group Health and Performance
- Troubleshooting Common AlwaysOn Issues
- Administering Read-Only Routing
- Backup and Restore Strategies with AlwaysOn

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Senior Database Administrator (SQL Server)**
- > **Database Reliability Engineer**
- > **SQL Server Solutions Architect**

FREQUENTLY ASKED QUESTIONS

Q: What specific high availability and disaster recovery scenarios will I be equipped to implement after completing this 2-hour course?

This course will enable you to configure and manage highly available SQL Server environments using AlwaysOn Availability Groups, specifically focusing on setting up multiple replicas, configuring listeners for application connectivity, and understanding both synchronous and asynchronous commit modes. You'll be able to perform planned and unplanned failovers, significantly reducing downtime and ensuring data resilience across different data centers or within a single data center.

Q: What are the essential prerequisites in terms of SQL Server and Windows Server knowledge to get the most out of this AlwaysOn High Availability course?

To maximize your learning from this intermediate-level course, you should have a foundational understanding of SQL Server administration, including basic database management, security, and T-SQL. Familiarity with Windows Server operating systems, particularly networking concepts and basic server roles, will also be highly beneficial as AlwaysOn Availability Groups rely heavily on Windows Server Failover Clustering.

Q: How does mastering SQL Server AlwaysOn through this course enhance my capabilities compared to relying on older high availability solutions like Database Mirroring or Log Shipping?

This course focuses on AlwaysOn Availability Groups, which represents a significant advancement over older solutions. AlwaysOn offers integrated, enterprise-grade high availability and disaster recovery for a group of user databases, providing automatic failover at the database level, better resource utilization (e.g., readable secondary replicas), and enhanced manageability. Unlike Database Mirroring which is deprecated, or Log Shipping which is primarily a DR solution, AlwaysOn provides a comprehensive, modern, and robust solution for continuous business operations, making you proficient in current industry best practices.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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