



MICROSOFT TRAINING

DP-3001: Migrate SQL Server Workloads to Azure SQL

Learn to migrate SQL Server workloads to Azure SQL. Prepare for the DP-3001 exam and manage scalable, secure cloud databases.

DURATION

16 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The "DP-3001: Migrate SQL Server Workloads to Azure SQL" course is an intermediate-level program designed for database professionals seeking to master the crucial skill of migrating on-premises SQL Server databases to Microsoft Azure. This comprehensive training covers the entire migration lifecycle, from initial assessment and planning to executing the migration using various tools and post-migration optimization. Participants will delve into the nuances of Azure SQL Database, Azure SQL Managed Instance, and SQL Server on Azure Virtual Machines, understanding when and how to leverage each option for different workload requirements.

Throughout the 16-hour duration, students will gain hands-on experience with key Microsoft technologies such as the Data Migration Assistant (DMA) and Azure Database Migration Service (DMS). The course emphasizes practical strategies for assessing migration readiness, identifying compatibility issues, and selecting the most appropriate migration path for diverse SQL Server environments. By completing this course, IT professionals will acquire the expertise needed to modernize their organization's data infrastructure, reduce operational costs, enhance scalability, and improve security by transitioning to Azure's robust cloud database offerings.

This certification not only equips you with the technical prowess to execute complex database migrations but also positions you as a valuable asset in organizations embracing cloud transformation. You will learn to troubleshoot common migration challenges, optimize performance in the cloud, and implement robust high availability and disaster recovery solutions, ensuring a seamless transition and continuous operation of critical database workloads in Azure.

Duration	16 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	DP-3001

COURSE CURRICULUM

01 Module 1: Planning and Preparing for SQL Server Migrations to Azure

- Understanding Azure SQL deployment options (SQL DB, SQL MI, SQL VM)
- Defining migration strategies and business goals
- Assessing source SQL Server environments and dependencies
- Estimating costs and resources in Azure for data workloads
- Introduction to migration tools: DMA, DMS, and other utilities

02 Module 2: Assessing SQL Server Workloads and Modernization Options

- Using Data Migration Assistant (DMA) for readiness assessment
- Identifying compatibility issues and performance baselines
- Choosing the right Azure SQL target based on workload characteristics
- Understanding data estate modernization benefits and TCO analysis
- Performance data collection and analysis for migration sizing

03 Module 3: Executing Migrations to Azure SQL Database

- Online vs. offline migration techniques for Azure SQL Database
- Utilizing Azure Database Migration Service (DMS) for online migrations
- Performing schema and data migrations using various methods

- Post-migration validation, testing, and cutover procedures
- Troubleshooting common issues during Azure SQL Database migrations

04 Module 4: Executing Migrations to Azure SQL Managed Instance

- Understanding Azure SQL Managed Instance features and benefits
- Migration methods specific to Managed Instance (e.g., native backup/restore, DMS)
- Configuring Managed Instance networking and security requirements
- Migrating SQL Server Agent jobs, linked servers, and cross-database queries
- Addressing migration considerations for legacy applications

05 Module 5: Post-Migration Optimization and Management

- Performance tuning and monitoring in Azure SQL environments
- Implementing high availability and disaster recovery (HADR) strategies
- Managing security, access control, and compliance in Azure SQL
- Cost optimization, resource scaling, and automated management
- Continuous data synchronization and change data capture (CDC) in hybrid scenarios

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Database Administrator**
- > **Cloud Data Engineer**
- > **Database Modernization Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What specific prior experience with SQL Server or Azure is recommended before taking this DP-3001 course?

To get the most out of the DP-3001 course, it is highly recommended that participants have a solid understanding of SQL Server administration concepts, including database management, backup/restore operations, and basic T-SQL querying. While not strictly required, familiarity with fundamental Azure concepts, such as Azure Virtual Networks and Azure Storage, will also be beneficial, as these form part of the cloud migration context.

Q: Beyond basic migration, what advanced scenarios or tools will I master in this course to handle complex SQL Server environments?

This course goes beyond basic lift-and-shift, focusing on advanced migration strategies. You will master using the Data Migration Assistant (DMA) for detailed compatibility assessments and performance baselining, and gain proficiency with Azure Database Migration Service (DMS) for complex online migrations requiring minimal downtime. We also cover strategies for migrating SQL Server Agent jobs, handling linked servers, cross-database queries, and ensuring network connectivity for Azure SQL Managed Instance, enabling you to tackle intricate enterprise environments effectively.

Q: How does completing this DP-3001 course directly enhance my marketability for roles focused on cloud database administration or data modernization projects?

Completing the DP-3001 course significantly boosts your marketability by certifying your expertise in a highly sought-after skill: cloud database migration and modernization. Employers are actively seeking professionals who can strategically

transition on-premises data to Azure, optimize cloud resources, and ensure data integrity and security. This course positions you as a specialist capable of leading or contributing to critical cloud transformation initiatives, opening doors to roles as an Azure Database Administrator, Cloud Data Engineer, or a Database Modernization Specialist, which are pivotal in today's cloud-first IT landscape.

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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