

PROFESSIONAL COURSE OUTLINE

Microsoft

DP-300

Azure Database Administrator Associate

This course provides students with the knowledge and skills to create a SQL Server database infrastructure for cloud, on-premises and hybrid relational databases and who work with the Microsoft PaaS relational database offerings. Additionally, it will be of use to individuals who develop applications that deliver content from SQL-based relational databases.

Data

Intermediate

Azure

PROGRAM CODE

DP-300

DELIVERY

Virtual, On-site, or Hybrid

DURATION

4 days

CERTIFICATION

Microsoft Certified: Azure Database Administrator Associate

AUDIENCE PROFILE

Who This Program Is For

The audience for this course is data professionals managing data and databases who want to learn about administering the data platform technologies that are available on Microsoft Azure. This course is also valuable for data architects and application developers who need to understand what technologies are available for the data platform with Azure and how to work with those technologies through applications.

PROGRAM SUMMARY

What This Course Covers

As a candidate for this certification, you should have subject matter expertise in building database solutions that are designed to support multiple workloads built with: Azure SQL services SQL Server on-premises You're a database administrator who manages cloud and on-premises databases built with Azure SQL services and SQL Server.

TAILORED DELIVERY

Adapt the program around your team.

This outline can be adapted for virtual, on-site, or hybrid delivery, with emphasis adjusted for your team's platform priorities, role mix, and implementation goals.

Enterprise-ready delivery format

VNode ITeS can align labs, examples, delivery pace, and assessment checkpoints to the required audience profile while preserving the official program sequence where applicable.

COMPLETE MODULE SEQUENCE

Module Flow and Topic Coverage

The structure below presents the current delivery flow for this program, including the associated topics covered under each module.

**Plan the next session**

We can tune this outline around your delivery goals and team mix.

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MODULE 1

Plan and implement data platform resources

Plan and implement data platform resources

- Prepare to maintain SQL Server-based databases on Azure
- Deploy IaaS solutions with Azure SQL
- Deploy PaaS solutions with Azure SQL
- Migrate SQL Server workloads to Azure SQL Database
- Migrate SQL Server workloads to Azure SQL Managed Instance

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MODULE 2

Implement a secure environment for a database service

Implement a secure environment for a database service

- Configure database authentication and authorization
- Protect data in-transit and at rest
- Implement compliance controls for sensitive data

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MODULE 3

Monitor and optimize operational resources in Azure SQL

Monitor and optimize operational resources in Azure SQL

- Describe performance monitoring
- Configure SQL Server resources for optimal performance
- Configure databases for optimal performance

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MODULE 4

Optimize query performance in Azure SQL

Optimize query performance in Azure SQL

- Explore query performance optimization
- Explore performance-based database design
- Evaluate performance improvements

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MODULE 5

Automate database tasks for Azure SQL

Automate database tasks for Azure SQL

- Automate database deployment
- Create and manage SQL Agent jobs
- Manage Azure PaaS tasks using automation

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MODULE 6

Plan and implement a high availability and disaster recovery environment

Data must be available when needed. Configure, test and manage a solution for high availability and disaster recovery using Azure tools and SQL Server tools.

- Describe high availability and disaster recovery strategies
- Explore IaaS and PaaS solutions for high availability and disaster recovery
- Back up and restore databases

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