

## **Administering Microsoft Azure SQL Solutions**

CODICE	DP-300T00
DURATA	4 gg
PREZZO	1.450,00 €
EXAM	

#### **DESCRIZIONE**

This course provides students with the knowledge and skills to administer 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.

#### **OBIETTIVI RAGGIUNTI**

- Plan, deploy and configure Azure SQL offerings
- Monitor database performance and tune a database and queries for optimum performance
- Plan and configure a High Availability Solution

#### **TARGET**

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.

#### **PREREQUISTI**

Successful Azure Database Administrators start this role with professional experience in database management and technical knowledge of cloud technologies.

#### Specifically:

- Working with, maintaining, and developing with SQL Server
- Experience with Azure, such as deploying and managing resources

At a minimum, you should know the information in the following online training before attending the course:

- Introduction to Azure SQL
- Azure Fundamentals
- Azure Data Fundamentals

#### **CONTENUTI**

## 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

# 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

# Monitor and optimize operational resources in Azure SQL

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

# Optimize query performance in Azure SQL

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

### Automate database tasks for Azure SQL

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

# Plan and implement a high availability and disaster recovery environment

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