

## **MS-55247 Designing and Implementing Cloud Data Platform Solutions (MS-55247)**

**Modality:** Virtual Classroom

**Duration:** 3 Days

**SATV Value:** 3

**CLC:**

**NATU:**

**SUBSCRIPTION:** Master

### **About this course:**

The course of Designing and Implementing Cloud Data Platform Solutions -- MS-55247 is intended for specialists who are hoping to utilize the SQL server and also MS Azure for the deployment of database solutions.

In this course, learners will be acquainted with disaster recovery, security, monitoring, and availability.

### **Course Objective:**

- MS Azure Data Solutions
- Security Solutions for cloud databases
- SQL server
- Options of Disaster Scalability and Recovery configuration for databases.
- Plan and Implement Hybrid SQL Server solutions
- Design and apply Azure SQL Database solutions
- Implement a High-Availability Solution
- Implement a Disaster Recovery Solution
- Implement a Scalability Solution
- Design and execute PostgreSQL and MySQL database solutions in Azure.
- Manage and Troubleshoot SQL Server VMs on Azure
- Configure a High-Availability solution
- Configure a Disaster Recovery Solution
- Configure a Scalability Solution
- Monitor and Troubleshoot Azure SQL Databases.

### **Audience:**

The course is made for the professionals of data who have involvement with making and applying MS Azure data solutions.

### **Prerequisite:**

Ought to have working involvement in databases.

Should understand the way to utilize SQL.

## **Course Outline:**

### **Module 1: Designing and Implementing Database Solutions for SQL Server and Microsoft Azure**

This module explains how to design a database solution for SQL Server and Microsoft Azure databases.

#### **Lessons**

- Design and Implement Hybrid SQL Server solutions
- Design and Implement Azure SQL Database solutions
- Design and Implement MySQL and PostgreSQL database solutions in Azure
- Review

#### **Lab : Designing and Implementing Database Solutions for SQL Server and Microsoft Azure**

- Implement a Hybrid SQL Server solution
- Implement an Azure SQL Database solution
- Implement a MySQL database solution
- Implement a PostgreSQL database solution

After completing this module, students will be able to:

- Install and configure SQL Server on an Azure VM
- Install and configure Azure databases
- Install and configure MySQL and PostgreSQL databases

### **Module 2: Manage, Design and Implement Database Security**

This module explains how to setup security for an on-premises or Azure database.

#### **Lessons**

- Design and Implement SQL Server database security
- Design and Implement Azure SQL Database security
- Review

#### **Lab : Manage, Design and Implement Database Security**

- Implement SQL Server database security
- Implement Azure SQL Database security

After completing this module, students will be able to:

- Configure SQL Server database security
- Configure Azure SQL Database security

### **Module 3: Design for High-Availability, Disaster Recovery and Scalability**

This module explains how to configure database solutions for High-Availability, Disaster Recovery and Scalability.

#### **Lessons**

- Design and Implement High-Availability Solutions
- Design and Implement Disaster Recovery Solutions
- Design and Implement Scalability Solutions
- Review

#### **Lab : Create Microsoft Azure Data Objects using Python**

- Implement a High-Availability Solution
- Implement a Disaster Recovery Solution
- Implement a Scalability Solution

After completing this module, students will be able to:

- Configure a High-Availability solution
- Configure a Disaster Recovery Solution
- Configure a Scalability Solution

### **Module 4: Monitor and Troubleshoot Database Implementations in Azure**

This module explains how to monitor and troubleshoot database implementations.

#### **Lessons**

- Monitor and Troubleshoot SQL Server VMs on Azure
- Monitor and Troubleshoot Azure SQL Databases
- Review

#### **Lab : Create Microsoft Azure Data Processes using Python**

- Monitor and Troubleshoot SQL Server
- Monitor and Troubleshoot Azure SQL Databases

After completing this module, students will be able to:

- Monitor and Troubleshoot SQL Servers
- Monitor and Troubleshoot Azure SQL Databases