

DP-900

Azure Data Fundamentals (Course Curriculum)



Amit Sharma (Founder, B.Tech – CS, Microsoft Certified Professional)

SKAAY Data Labs, A - 15, Ground Floor, Sector - 3, Noida – 201301, Landmark: Walking distance from Sec-16 metro station

LinkedIn : <https://www.linkedin.com/in/skaay-data-labs/>, ✉ amitsharma@skaaydatalabs.com, ☎ +91- 9717008603, 9717037193

Syllabus & Course Outline

| | |
|----------------------|---|
| Course Name | DP-900 (Azure Data Fundamentals) |
| Duration | Weekend (6-7 weekends, 30-35hrs) |
| Delivery Mode | Classroom/Online |
| Key Features | Lab/Workshop Sessions, Demo Interview Sessions, Job Assistance Group |
| Training kit | Welcome kit, Course related software, Notes, Practice questions, & Others |
| | |

Microsoft Azure Data Fundamentals Certification Training is for professionals who are looking forward to build their career on data side. This training will help students to gain a solid understanding of Azure's data processing services.

After completing this course, one should be able to learn all aspects of data concept, relational, non-relational data and analytical workload on Azure & more.

Training will be provided on the company's domain & everyone will get the sandbox to practice.

Intended Audience

- Both technical and non-technical people who want to demonstrate their knowledge of core data concepts and how they are implemented using Microsoft Azure data services
- People preparing for Microsoft's DP-900 exam

Azure Data Fundamentals - Explore Core Data Concepts

Data Concepts

- Introduction
- Data formats
- File storage
- Explore Databases & Transactional data processing
- Analytical data processing
- Knowledge check & Summary

Data Roles & Services

- Introduction
- Explore job roles of data & Identify data services
- Knowledge check & Summary

Azure Data Fundamentals - Explore Relational Data in Azure

Relational Data Concepts

- Introduction
- Understand relational data & Normalization
- Explore SQL
- Explore database objects
- Knowledge check & Summary

Relational database services in Azure

- Introduction
- Azure SQL services and capabilities
- Azure services for open-source databases
- Knowledge check & Summary
- Exercise : Explore Azure relational database services

Explore Non-Relational Data in Azure

Azure storage for non-relational data

- Introduction
- Azure blob storage
- Azure Data Lake Storage
- Azure Files & Tables
- Knowledge check & Summary
- Exercise : Explore Azure Storage

Azure Cosmos DB

- Introduction
- Azure Cosmos DB
- Knowledge check & Summary
- Exercise : Explore Azure Cosmos DB

Explore Data Analytics in Azure

Fundamentals of large scale DWH

- Introduction
- Describe DWH architecture
- Data Ingestion Pipelines
- Analytics Data Stores
- Knowledge check & Summary
- Exercise : Explore data analytics in Azure using Azure Synapse Analytics

Fundamentals of Real-Time Analytics

- Introduction
- Batch vs Stream processing
- Common elements of stream processing architecture
- Explore Azure stream analytics
- Explore Apache Spark on Microsoft Azure
- Azure Data Explorer
- Knowledge check & Summary
- Exercise : Explore Azure Stream Analytics
- Exercise : Spark Streaming in Azure Synapse Analytics
- Exercise : Azure Synapse Data Explorer

Explore Data Analytics in Azure

Data Visualization

- Introduction
- Power BI tools & workflow
- Core concept of data modelling
- Considerations for data visualization
- Knowledge check & Summary
- Exercise : Fundamentals of data visualization with Power BI

Data Roles & Services

- Introduction
- Explore job roles of data & Identify data services
- Knowledge check & Summary

THANK YOU!!!

Amit Sharma (Founder, B.Tech – CS, Microsoft Certified Professional)

SKAAY Data Labs, A - 15, Ground Floor, Sector - 3, Noida – 201301, Landmark: Walking distance from Sec-16 metro station

LinkedIn : <https://www.linkedin.com/in/skaay-data-labs/>, ✉ amitsharma@skaaydatalabs.com, ☎ +91- 9717008603, 9717037193