

DP-900: Azure Data Fundamentals

Learn how data is stored, processed and analysed on Azure, and prepare for the DP-900 Azure Data Fundamentals exam in one day.

DURATION

1 day · 8 hours

LEVEL

Beginner

CURRICULUM

5 modules · 3 labs

DELIVERYLive online, Onsite,
Corporate

Course overview

Every data role — analyst, engineer, administrator or scientist — depends on the same core ideas: how data is structured, where it is stored, how it moves and how it becomes useful insight. This one-day course builds that foundation using Azure services and Microsoft Fabric, with short labs so the concepts become concrete.

The morning covers core data concepts: structured, semi-structured and unstructured data; transactional and analytical workloads; and the roles that work with data. You then explore relational data on Azure, including SQL basics, normalisation and the Azure SQL family, and run your first queries against a cloud database.

Next you look at non-relational data — Azure Blob Storage, Azure Files, Azure Tables and Azure Cosmos DB — and learn when each one fits. The afternoon turns to analytics: data ingestion, data lakes and warehouses, real-time analytics, Microsoft Fabric and Power BI. A short lab ends with a simple report built from sample data.

The final session explains how fundamentals exams work and walks through practice questions so you can see which areas to revise.

This course is aligned to the DP-900 exam. Microsoft updates exam outlines periodically, so check the current skills measured on Microsoft Learn before booking.

Highlights

- 8 hours of live, trainer-led teaching
- Short labs with Azure SQL, Cosmos DB and Power BI
- Clear comparison of relational, non-relational and analytics stores
- Introduction to Microsoft Fabric and modern analytics
- Good first step before DP-300, DP-600, DP-700 or PL-300

What's included

- Plain-language explanations of data concepts
- Labs with Azure SQL, Cosmos DB and Power BI
- Overview of Microsoft Fabric for modern analytics
- Decision guide for choosing a data store
- Practice questions with explained answers
- Course completion certificate from Ace Skills Consulting

Who this course is for

Who should attend

- Professionals starting a career in data
- Business analysts and reporting users
- Developers and IT staff new to data on Azure
- Project managers on data and analytics programmes
- Students and fresh graduates

Prerequisites

- No prior database experience required
- General familiarity with spreadsheets and computers
- A laptop with a modern browser

Detailed curriculum — 1 day, 8 hours, 5 modules, 3 hands-on labs

Day 1 Data Concepts, Relational, Non-Relational and Analytics on Azure

8 hours

1.1 Core data concepts

- Structured, semi-structured and unstructured data
- Transactional vs analytical workloads
- File formats such as CSV, JSON and Parquet
- Data roles and responsibilities

1.2 Relational data on Azure

- Tables, keys and normalisation
- Views, stored procedures and indexes
- Open-source databases on Azure
- SQL statements: SELECT, INSERT, UPDATE and DELETE
- Azure SQL Database, Managed Instance and SQL on VMs

LAB Create an Azure SQL database and run queries · 45 min

1.3 Non-relational data on Azure

- Blob Storage, Azure Files and Azure Tables
- Choosing a non-relational store
- Azure Cosmos DB and its APIs

LAB Store and query JSON documents in Cosmos DB · 30 min

1.4 Analytics workloads

- Data ingestion and pipelines
- Real-time analytics
- Power BI data models and reports
- Data lakes, warehouses and lakehouses
- Microsoft Fabric overview

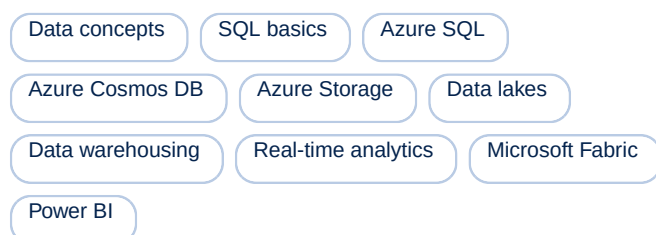
LAB Build a simple Power BI report from sample data · 35 min

1.5 Exam readiness

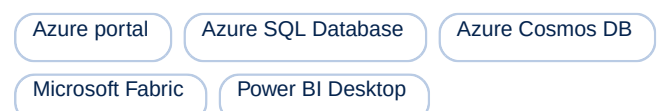
- How fundamentals exams are structured
- Practice questions with explained answers

Skills and tools

Skills you will build



Tools used in class



Certification exam

This course is aligned to the exam below and prepares you for it. The exam itself is booked and taken with the vendor.

Exam	Microsoft Certified: Azure Data Fundamentals
Exam code	DP-900
Duration	45 minutes
Passing score	700 / 1000 (scaled)
Format	Multiple choice, Multiple response, Drag and drop
Delivery	Online proctored, Test centre
Validity	Does not expire
Official page	https://learn.microsoft.com/credentials/certifications/exams/dp-900/

Exam skill areas covered

Describe and manage relational data on Azure

Exam details are pending verification. Confirm the current exam code, format and fee on the official vendor page before booking.

Frequently asked questions

Do I need SQL experience?

No. SQL basics are taught during the course, and the labs provide starter queries.

Which course should I take after DP-900?

It depends on your goal: DP-300 for database administration, DP-700 for data engineering, or PL-300 and DP-600 for analytics.

Does DP-900 expire?

No. Microsoft fundamentals certifications do not expire.

How do I book the exam?

You schedule DP-900 through Microsoft Learn, either online-proctored or at a test centre.

Can you run a private batch for our team?

Yes. We run private online or onsite batches for corporate teams, and we can weight the labs towards your organisation's data platform. Request a corporate quote with your team size and preferred dates.

Book a batch or talk to an advisor

Course page: aceskillsconsulting.com/course/dp-900-azure-data-fundamentals · Email: info@aceskillsconsulting.com

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