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Microsoft Azure Data Fundamentals (DP-900) Training

Microsoft Authorized Training · Applied Technology Academy

In this course, students will gain foundational knowledge of core data concepts and related Microsoft Azure data services. Students will learn about core data concepts such as relational, non-relational, big data, and analytics, and build their foundational knowledge of cloud data services within Microsoft Azure. Students will explore fundamental relational data concepts and relational database services in Azure. They will explore Azure storage for non-relational data and the fundamentals of Azure Cosmos DB. Students will learn about large-scale data warehousing, real-time analytics, and data visualization.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Beginner	**1 Day**	**1 year: Microsoft Azure**	**$91,000**	**Yes**

Course Overview

- Describe core data concepts
- Identify considerations for relational data on Azure
- Describe considerations for working with non-relational data on Azure
- Describe an analytics workload on Azure

Course Outline

- **Lesson 1: Explore core data concepts**
  - Identify data formats
  - Explore file storage
  - Explore databases
  - Explore transactional data processing
  - Explore analytical data processing
- **Lesson 2: Explore data roles and services**
  - Explore job roles in the world of data
  - Identify data services
- **Lesson 3: Explore fundamental relational data concepts**
  - Understand relational data
  - Understand normalization
  - Explore SQL
  - Describe database objects
- **Lesson 4: Explore relational database services in Azure**

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  - Describe Azure SQL services and capabilities
  - Describe Azure services for open-source databases
- **Lesson 5: Explore Azure Storage for non-relational data**
  - Explore Azure blob storage
  - Explore Azure DataLake Storage Gen2
  - Explore Azure Files
  - Explore Azure Tables
- **Lesson 6: Explore fundamentals of Azure Cosmos DB**
  - Describe Azure Cosmos DB
  - Identify Azure Cosmos DB APIs
- **Lesson 7: Explore fundamentals of large-scale data warehousing**
  - Describe data warehousing architecture
  - Explore data ingestion pipelines
  - Explore analytical data stores
- **Lesson 8: Explore fundamentals of real-time analytics**
  - Understand batch and stream processing
  - Explore common elements of stream processing architecture
  - Explore Azure Stream Analytics
  - Explore Apache Spark on Microsoft Azure
- **Lesson 9: Explore fundamentals of data visualization**
  - Describe Power BI tools and workflow
  - Describe core concepts of data modeling
  - Describe considerations for data visualization

Intended Audience

The audience for this course is individuals who want to learn the fundamentals of database concepts in a cloud environment, get basic skilling in cloud data services, and build their foundational knowledge of cloud data services within Microsoft Azure.

Prerequisites

There are no prerequisites for this course.

Follow-On Courses

- Implement Data Engineering Solutions Using Microsoft Fabric (DP-700)
- Microsoft Azure Security Technologies (AZ-500)
- Developing Solutions for Microsoft Azure (AZ-204)

- Designing Microsoft Azure Infrastructure Solutions (AZ-305)

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.