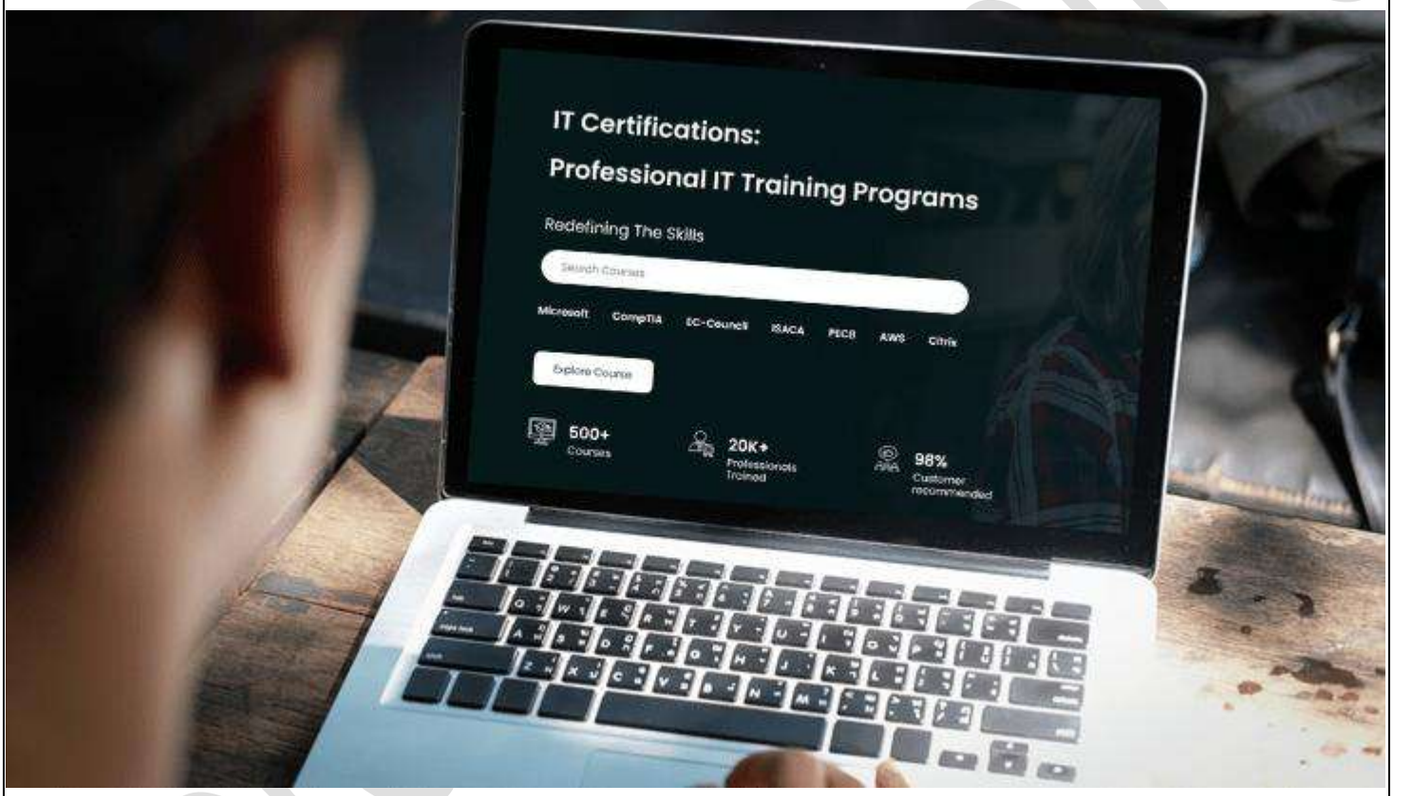
MICROTEK LEARNING | Redefining The Skills



DP-900: MICROSOFT AZURE DATA FUNDAMENTALS TRAINING

Duration: 1 Day

Course Description

DP-900: Microsoft Azure Data Fundamentals Training is focused on understanding core data concepts and learning about its database in cloud environments. Azure data services is capable of handling data processing and analytical needs. Gaining essential training in Azure data services like Azure data share, Azure Data Catalog and azure Data Factory helps professionals identify concepts that include relational, non-relational, big data and analytics.

Complete learning of these concepts will lead to trained professionals implementing them in Microsoft Azure. By learning this course individually become familiar with roles, tasks and responsibilities of the data world and are further liable to find advanced opportunities in the same.

This course is based on the objectives of DP-900T00-A.

Who should attend this course?

- There are no eligibility criteria required to be cleared before taking the examination.
- Any professional willing to gain experience in the fundamentals of database concepts in a cloud environment.
- Given below are professionals that can use Azure Data Fundamentals to upskill their current positions:
    - IT Professionals
    - Data Analysts
    - Developers
    - Data Scientists
    - Technical Managers
    - Education Technology Professors

What you will learn

- Describe core data concepts in Azure
- Explain concepts in relational data in Azure
- Explain concepts in non-relational data in Azure
- Identify components of a modern data warehouse in Azure
- Describe the analytics workload on Azure
- Explore fundamentals of data visualization
- Explore fundamentals of large-scale data – analytics

Prerequisites

- There are no prerequisites requirements before opting for this course
- Familiarity with basic cloud computing, data concepts, relational and non-relational data (Microsoft) is beneficial.
- Understanding of concepts like tables of data in Excel, and usage of charts for better visualization can help.
- Prior knowledge of applying data concepts while using Microsoft Azure Data Services is beneficial.
- Enthusiasm to learn and explore through hands-on experience.

What Exam Do I Need To Get Certified?

- Exam AZ-900

Curriculum

Module 1: Explore core data concepts

- Explore core data concepts
  - Identify common data formats.
  - Describe options for storing data in files.
  - Describe options for storing data in databases.
  - Describe characteristics of transactional data processing solutions.
  - Describe characteristics of analytical data processing solutions.
- Explore data roles and services
  - Identify common data professional roles.
  - Identify common cloud services used by data professionals.

Module 2: Explore relational data in Azure

- Explore fundamental relational data concepts
  - Identify characteristics of relational data.
  - Define normalization.
  - Identify types of SQL statement.
  - Identify common relational database objects.
- Explore relational database services in Azure
  - Identify options for Azure SQL services.
  - Identify options for open-source databases in Azure.
  - Provision a database service on Azure.
  - Labs: Explore Azure relational database services

Module 3: Explore non-relational data in Azure

- Explore Azure Storage for non-relational data
  - Describe features and capabilities of Azure blob storage.
  - Describe features and capabilities of Azure Data Lake Storage Gen2.
  - Describe features and capabilities of Microsoft OneLake in Fabric.
  - Describe features and capabilities of Azure file storage.
  - Describe features and capabilities of Azure table storage
  - Provision and explore an Azure Storage account.
  - Labs: Explore Azure Storage
- Explore fundamentals of Azure Cosmos DB
  - Describe key features and capabilities of Azure Cosmos DB.
  - Identify the APIs supported in Azure Cosmos DB.
  - Provision and explore an Azure Cosmos DB database.
  - Labs: Explore Azure Cosmos DB

Module 4: Explore data analytics in Azure

- Explore fundamentals of large-scale analytics
  - Describe data warehousing architecture.
  - Describe key features for data ingestion pipelines.
  - Identify common types of analytical data store and related Azure services.
  - Use Microsoft Fabric to ingest and analyze data.
  - Labs: Explore data analytics in Microsoft Fabric

- Explore fundamentals of real-time analytics
    - Understand batch and stream processing.
    - Describe common elements of streaming data solutions.
    - Describe features and capabilities of real-time intelligence in Microsoft Fabric.
    - Describe features and capabilities of Apache Spark Structured Streaming on Azure.
    - Explore real-time analytics in Microsoft Fabric.
    - Labs: Explore Microsoft Fabric Real-Time Intelligence
- Explore fundamentals of data visualization
    - Describe a high-level process for creating reporting solutions with Microsoft Power BI.
    - Describe core principles of analytical data modeling.
    - Identify common types of data visualization and their uses.
    - Create an interactive report with Power BI Desktop.
    - Labs: Explore fundamentals of data visualization with Power BI

For any query Contact Us – Microtek Learning