Microsoft Azure Data Fundamentals
DP-900T00-A

Course Name	**Microsoft Azure Data Fundamentals**
Course Code	**DP-900T00-A**
Course Duration	1 Day
Course Structure	Instructor-Led
Course Overview	In this course, students will 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. Students will identify and describe core data concepts such as relational, non-relational, big data, and analytics, and explore how this technology is implemented with Microsoft Azure. They will explore the roles, tasks, and responsibilities in the world of data. The students will explore relational data offerings, provisioning and deploying relational databases, and querying relational data through cloud data solutions with Microsoft Azure. They will explore non-relational data offerings, provisioning and deploying non-relational databases, and non-relational data stores with Microsoft Azure. Students will explore the processing options available for building data analytics solutions in Azure. They will explore Azure Synapse Analytics, Azure Databricks, and Azure HDInsight. Students will learn what Power BI is, including its building blocks and how they work together.
Audience Profile	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.
Course Prerequisites	Prerequisites Prerequisite certification is not required before taking this course. Successful Azure Data Fundamentals students start with some basic awareness of computing and Internet concepts, and an interest in extracting insights from data. Specifically: Experience using a web browser, such as Microsoft Edge. Familiarity with basic data-related concepts, such as working with tables of data in a spreadsheet and visualizing data using charts. A willingness to learn through hands-on exploration.

Course Outcome	After completing this course, students will be able to: • Describe core data concepts in Azure • Explain concepts of relational data in Azure • Explain concepts of non-relational data in Azure • Identify components of a modern data warehouse in Azure
Assessment/Evaluation	This course will prepare delegates to take the exam DP-900: Microsoft Azure Data Fundamentals Successfully passing this exam will result in the attainment of the Microsoft Azure Data Fundamentals and Certificate of Attendance issued by IT-IQ Botswana

Course Details	
Topic	**Topic 1: Explore core data concepts** Students will 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. Students will identify and describe core data concepts such as relational, non-relational, big data, and analytics, and explore how this technology is implemented with Azure. Students will explore the roles, tasks, and responsibilities in the world of data. **Lessons** • Explore core data concepts • Explore roles and responsiblities in the world of data • Describe concepts of relational data • Explore concepts of non-relational data • Explore concepts of data analytics

	After completing this Topic, students will be able to: • Show foundational knowledge of cloud data services within Azure • Identify and describe core data concepts such as relational, non-relational, big data, and analytics • Explain how this technology is implemented with Azure **Topic 2: Explore relational data in Azure** Students will 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. Students will explore relational data offerings, provisioning and deploying relational databases, and querying relational data through cloud data solutions with Azure. **Lessons** • Explore relational data services in Azure • Explore provisioning and deploying relational database services in Azure • Query relational data in Azure After completing this Topic, students will be able to: • Describe relational data services on Azure • Explain provisioning and deploying relational databases on Azure • Query relational data through cloud data solutions in Azure **Topic 3: Explore non-relational data in Azure** Students will 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 Azure. Students will explore non-relational data services, provisioning and deploying non-relational databases, and non-relational data stores with Microsoft Azure. **Lessons** • Explore non-relational data services in Azure • Explore provisioning and deploying non-relational data services on Azure • Manage non-relational data stores in Azure

	After completing this Topic, students will be able to: • Describe non-relational data services on Azure • Explain provisioning and deploying non-relational databases on Azure • Decribe non-relational data stores on Azure **Topic 4: Explore modern data warehouse analytics in Azure** Students will 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 Azure. Students will explore the processing options available for building data analytics solutions in Azure. Students will explore Azure Synapse Analytics, Azure Databricks, and Azure HDInsight. Students will learn what Power BI is, including its building blocks and how they work together. **Lessons** • Examine components of a modern data warehouse • Explore data ingestion in Azure • Explore data storage and processing in Azure • Get started building with Power BI After completing this Topic, students will be able to: • Describe processing options available for building data analytics solutions in Azure • Describe Azure Synapse Analytics, Azure Databricks, and Azure HDInsight • Explain what Microsoft Power BI is, including its building blocks and how they work together