## Azure Data Engineer Course Curriculum

### Non-Relational Data Stores and Azure Data Lake Storage

* Document data stores
* Columnar data stores
* Key/value data stores
* Graph data stores
* Time series data stores
* Object data stores
* External index
* Why NoSQL or Non-Relational DB?
* When to Choose NoSQL or Non-Relational DB?
* Azure Data Lake Storage

### Data Lake and Azure Cosmos DB

* Data Lake Key Concepts
* Azure Cosmos DB
* Why Azure Cosmos DB?
* Azure Blob Storage
* Why Azure Blob Storage?
* Data Partitioning
* Why Partitioning Data?
* Consistency Levels in Azure Cosmos DB

### Relational Data Stores

* Introduction to Relational Data Stores
* Azure SQL Database
* Why SQL Database Elastic Pool?

### Why Azure SQL?

* Azure SQL Security Capabilities
* High-Availability and Azure SQL Database
* Azure Database for MySQL
* Azure Database for PostgreSQL
* Azure Database for MariaDB
* What is PolyBase?
* What is Azure Synapse Analytics (formerly SQL DW)?

### Azure Batch

* What is Azure Batch?
* Intrinsically Parallel Workloads
* Tightly Coupled Workloads
* Additional Batch Capabilities
* Working of Azure Batch

### Azure Data Factory

* Flow Process of Data Factory
* Why Azure Data Factory
* Integration Runtime in Azure Data Factory
* Mapping Data Flows

### Azure Databricks

* What is Azure Databricks?
* Azure Spark-based Analytics Platform
* Apache Spark in Azure Databricks

### Azure Stream Analytics

* Working of Stream Analytics
* Key capabilities and benefits
* Stream Analytics Windowing Functions

### Monitoring & Security

* What is Azure Monitor?
* What data does Azure Monitor collect?
* What can you Monitor?
* Alerts in Azure
* Azure Security Logging & Auditing

**Microsoft Azure Online Training Course Overview**  
This Microsoft Azure Online Training helps learners refine their skills by implementing Azure data solutions like Azure SQL data warehouse, data factory, and more. Gain expertise in designing data solutions and security. Enroll now!

**Why should I learn Microsoft Azure?**  
Microsoft Azure professionals enable companies to convert all their big data from storage systems, and relational and non-relational databases into data-driven workflows. This helps them put together concrete strategies, accomplish goals, and improve the market value of the data they own. For these crucial tasks, companies require certified professionals.

**What will I learn in this Microsoft Azure Online Training Course?**  
This Microsoft Azure Online Training will prepare you for exams DP-700 for implementing and designing Azure data solutions, enabling you to design and perform data management, monitoring, security, and privacy using the complete Azure data services stack. Further, you will learn the following topics:  
**Implement Azure Data Solution (DP 700)**

* Execute a data storage solution
* Managing and developing data processing
* Monitoring and optimizing data solutions

**Hands-on:**

1. Run a Spark Job on Azure Databricks using the Azure portal
2. ETL Operation by using Azure Databricks
3. Stream data into Azure Databricks using Event Hubs