

# Microsoft Azure Big Data Analytics Training

**Course Duration: 16 Hours**

**Course Code: AZ-BDA-101**

## 1. Course Overview

Microsoft Azure Big Data Analytics Training is designed to help professionals master data processing, storage, and analytics using Azure cloud services. This course covers tools like Azure Data Factory, Azure Synapse Analytics, and Azure Databricks to handle large-scale data efficiently and generate actionable insights for business decision-making.

## 2. What You'll Learn

- Fundamentals of Big Data and cloud-based analytics
- Working with Azure Data Factory for data integration
- Data processing using Azure Databricks
- Building data warehouses with Azure Synapse Analytics
- Real-time analytics using Azure Stream Analytics
- Data visualization with Power BI integration
- Implementing ETL pipelines in Azure
- Security and governance in Azure data solutions

## 3. Target Audience

- Data Analysts and Data Engineers
- Business Intelligence Professionals
- Cloud Engineers and Architects
- IT Professionals looking to upskill in Azure
- Fresh graduates aiming for a career in Big Data

## 4. Pre-Requisites

- Basic understanding of databases and SQL
- Familiarity with any programming language (Python/Java preferred)
- Basic knowledge of cloud computing concepts
- Understanding of data analytics fundamentals (recommended but not mandatory)

## 5. Course Content

- Introduction to Big Data & Azure Ecosystem
- Azure Data Storage (Blob Storage, Data Lake)
- Azure Data Factory (Data Integration & ETL)
- Azure Databricks (Data Processing & Transformation)
- Azure Synapse Analytics (Data Warehousing)
- Azure Stream Analytics (Real-Time Data Processing)
- Data Security & Monitoring in Azure
- Power BI Integration & Data Visualization
- Capstone Project & Real-World Use Cases