

Azure Data Engineer, Databricks & Azure Data Factory

Job-oriented Azure Data Engineering training covering Azure Data Factory, Azure Databricks, Azure Synapse, Data Lake, SQL & real-time ETL pipelines with DP-203 certification and placement support.

Duration	2 Months
Level	Beginner to Advanced
Category	Cloud Data Engineering
Mode	Live Online / Corporate Training

Programme Highlights

- ✓ Live Instructor-Led Online Training
- ✓ Real-Time Industry Projects & Lab Access
- ✓ Recorded Sessions & Lifetime Study Materials
- ✓ Resume + LinkedIn + Naukri Profile Optimisation
- ✓ Mock Interviews & Interview Q&A Practice
- ✓ Placement Assistance & MNC Job References
- ✓ Azure Data Engineer Certification (DP-203) Guidance
- ✓ Online training for USA, UK, Dubai, Singapore, Australia, Canada

Build practical, job-oriented data engineering skills with our instructor-led Azure Data Engineer Training program. This course is designed for freshers, graduates, software professionals, database professionals, cloud engineers, ETL developers, BI developers, data analysts, and working professionals who want to build a career in Microsoft Azure Data Engineering.

Our training focuses on practical concepts, hands-on labs, real-time project scenarios, cloud data pipelines, Azure Data Factory, Azure Databricks, Azure Synapse Analytics, SQL, PySpark, Data Lake, Delta Lake, ETL/ELT, interview preparation, and placement assistance.

Whether you are searching for Azure Data Engineer Training, Azure Data Engineer Online Training, Azure Data Engineering Course, or Azure Data Engineer Training with Placement, this program provides a structured learning path from fundamentals to real-world implementation.

Detailed Curriculum

Module 1: Microsoft Azure Basics

- Introduction to cloud computing
- Microsoft Azure overview
- Azure portal
- Resource groups & subscriptions
- Storage accounts
- Azure security basics

Module 2: Azure Data Factory (ADF)

- ADF pipeline creation
- Linked services & datasets
- Copy activity
- Data flow concepts
- Triggers & schedules
- Pipeline monitoring
- Real-time ETL scenarios

Module 3: Azure Databricks

- Workspace & notebooks
- Clusters
- Apache Spark basics
- PySpark programming
- DataFrames & transformations
- Delta Lake
- Job scheduling

Module 4: Azure Data Lake & Synapse

- ADLS Gen2
- Data ingestion
- Azure Synapse Analytics
- SQL pools
- Data warehouse concepts
- ADF + Databricks integration

Module 5: SQL & ETL

- Advanced SQL
- ETL vs ELT
- Data modeling
- Performance tuning

Module 6: Real-Time Azure Data Engineering Project

- End-to-end pipeline development
- Source-to-target movement
- Transformation & validation
- Scheduling
- Monitoring & error handling
- Project explanation for interviews

Tools & Technologies Covered

Azure Data Factory	Azure Databricks	Azure Synapse
ADLS Gen2	PySpark	Delta Lake
Azure SQL	Event Hubs	

Real-Time Projects

- End-to-End Azure Data Pipeline (Bronze / Silver / Gold)
- Real-Time Streaming with Event Hubs + Databricks
- Lakehouse Implementation with Delta Lake
- ETL Migration from On-Prem SQL to Azure

Career Opportunities

Azure Data Engineer	Cloud Data Engineer
Databricks Developer	Azure Data Factory Developer
Big Data Engineer	ETL Developer
PySpark Developer	Data Pipeline Developer
Cloud Analytics Engineer	

Why Join Our Azure Data Engineer Training?

✓ Live, In-Depth Azure Data Engineer Training — learn modern cloud data engineering concepts through live, instructor-led sessions. The course helps you understand how enterprise data is collected, transformed, processed, stored, and analyzed using Microsoft Azure services.

- Azure Fundamentals
- Data Engineering Fundamentals
- SQL
- Python Basics
- Azure Data Factory
- Azure Data Lake Storage
- Azure Databricks
- Apache Spark
- PySpark
- Delta Lake
- Azure Synapse Analytics
- ETL and ELT
- Data Pipelines
- Data Warehousing
- Data Integration
- Data Transformation
- Performance Optimization
- Security
- Monitoring
- Real-Time Project Scenarios

Azure Data Engineer Online Training

Our Azure Data Engineer Online Training provides live instructor interaction and practical cloud-based learning without requiring classroom attendance. Students can attend online sessions from Hyderabad, Bangalore, Chennai, Pune, Mumbai, Delhi, USA, UK, Canada, and other locations.

- ✓ Live instructor-led classes
- ✓ Practical hands-on sessions
- ✓ Real-time project scenarios
- ✓ Cloud data engineering concepts
- ✓ Recorded session access
- ✓ Study materials
- ✓ Assignments
- ✓ Interview preparation
- ✓ Resume preparation
- ✓ LinkedIn profile optimization
- ✓ Job application guidance
- ✓ Placement assistance

Azure Data Engineering Course - What You Will Learn

Our Azure Data Engineering Course covers the technologies and concepts required to design and implement modern data platforms on Microsoft Azure.

- Ingest data from multiple sources
- Build ETL and ELT pipelines
- Transform structured and unstructured data
- Store large volumes of data
- Process data using Spark
- Design data lakes
- Create data warehouses
- Build scalable data pipelines
- Monitor data workflows
- Optimize performance
- Secure cloud data platforms

Azure Data Engineer Course Curriculum

Module 1: Data Engineering Fundamentals

- What is Data Engineering?
- Roles and responsibilities
- Data pipelines
- ETL vs ELT
- Structured / semi-structured / unstructured data
- Batch & stream processing
- Data lakes, warehouses, Lakehouse
- Cloud data platforms

Module 2: Microsoft Azure Fundamentals

- Azure architecture
- Azure regions
- Resource Groups
- Subscriptions
- Azure Portal

- Storage Accounts
- Identity and Access concepts
- Azure Resource Manager

Module 3: SQL for Azure Data Engineers

- SQL fundamentals & SELECT
- WHERE conditions and JOINS
- GROUP BY & aggregate functions
- Subqueries and CTEs
- Window functions
- Stored procedures, views, indexes
- Query optimization concepts

Module 4: Python for Data Engineering

- Variables and data types
- Lists, tuples, dictionaries
- Functions, loops, conditions
- File handling
- Exception handling
- Python libraries
- Data processing basics

Module 5: Azure Data Factory

- Data Factory architecture
- Pipelines, activities, datasets
- Linked Services & Integration Runtime
- Copy Activity and Data Flows
- Parameters, variables, triggers
- Debugging, monitoring, error handling
- Incremental & metadata-driven pipelines

Module 6: Azure Data Lake Storage

- Data Lake concepts & architecture
- Storage accounts and containers
- File systems and folder structures
- Data organization
- Access control & security
- Data ingestion
- Data lifecycle concepts

Module 7: Azure Databricks

- Databricks workspace
- Clusters, notebooks, jobs
- Libraries
- Spark fundamentals
- DataFrames, transformations, actions
- Data processing
- Databricks workflows

Module 8: Apache Spark

- Spark architecture
- Driver and executors
- Cluster concepts
- RDDs and DataFrames
- Transformations & actions
- Lazy evaluation
- Partitioning and caching

Module 9: PySpark

- PySpark fundamentals
- Creating DataFrames & reading files
- Filtering and selecting
- Grouping and aggregations
- Joins and window functions
- Handling null values
- Writing output & optimization

Module 10: Delta Lake

- Delta tables
- ACID transactions
- Schema enforcement & evolution
- Time travel concepts
- Merge, update, delete
- Data versioning
- Performance optimization

Module 11: Azure Synapse Analytics

- Synapse architecture & workspace
- Dedicated and Serverless SQL
- Data warehousing
- External tables
- Data loading & transformation
- Synapse pipelines & Spark
- Security and performance

Modules 12-14: ETL/ELT, DWH & Pipelines

- ETL and ELT lifecycle
- Fact and dimension tables
- Star & snowflake schema
- Slowly Changing Dimensions
- Surrogate keys, data marts
- Data modeling
- End-to-end pipeline development

Modules 15-16: Incremental Loads & Security

- Full vs incremental load
- Watermarking & CDC concepts
- Parameterized pipelines
- Role-Based Access Control
- Managed identities

- Secrets management
- Encryption & secure connections

Modules 17-18: Monitoring & Optimization

- Pipeline and activity monitoring
- Failure analysis & retries
- Logging
- Databricks job monitoring
- Partitioning & file-size tuning
- Caching and efficient joins
- Delta & query optimization

Real-Time Azure Data Engineering Projects

Project 1: End-to-End Azure Data Pipeline

- Source data ingestion
- Azure Data Factory
- Azure Data Lake
- Databricks + PySpark
- Delta Lake
- Azure Synapse

Project 2: Incremental Loading Pipeline

- Incremental loads
- Watermarking
- Pipeline parameters
- Lookup activities
- Conditional processing
- Scheduling

Project 3: Data Lakehouse Implementation

- Azure Data Lake
- Databricks
- Spark
- PySpark
- Delta Lake

Project 4: Enterprise Data Warehouse

- Data Factory
- Synapse Analytics
- Fact tables
- Dimension tables
- Data transformations
- Data loading

Beginner Learning Roadmap

Step 1 → SQL Fundamentals

Step 2 → Python Fundamentals

Step 3 → Data Engineering Basics	Step 4 → Microsoft Azure Fundamentals
Step 5 → Azure Data Lake	Step 6 → Azure Data Factory
Step 7 → Azure Databricks & Spark	Step 8 → PySpark
Step 9 → Delta Lake	Step 10 → Azure Synapse Analytics
Step 11 → Data Warehousing	Step 12 → Real-Time Projects
Step 13 → Interview Preparation	Step 14 → Job Applications

Who Can Learn Azure Data Engineering?

- B.Tech / B.E. / B.Sc / BCA / MCA / M.Tech graduates
- Freshers
- Software Developers
- SQL & Database Developers
- ETL Developers
- BI Developers
- Data Analysts
- Cloud Engineers & Azure Professionals
- Python / Java Developers
- Testing & DevOps professionals
- Working professionals
- Professionals planning a career transition

Career Support & Interview Preparation

- ✓ ATS-friendly resume preparation
- ✓ Azure Data Engineer resume guidance
- ✓ Real-time project descriptions
- ✓ LinkedIn & Naukri profile optimization
- ✓ ADF, Databricks, PySpark & SQL interview questions
- ✓ Synapse, Data Lake & Delta Lake interview questions
- ✓ ETL/ELT and pipeline scenario questions
- ✓ Mock interview guidance
- ✓ Job application assistance
- ✓ Placement assistance

Placement assistance provides job-search and career support and should not be interpreted as guaranteed employment.

Enterprise Data Workflow

Step 1 → Application / Database / Files	Step 2 → Data Ingestion
Step 3 → Azure Data Factory	Step 4 → Azure Data Lake Storage
Step 5 → Azure Databricks	Step 6 → PySpark Transformation

Step 7 → Delta Lake	Step 8 → Azure Synapse
Step 9 → Analytics / Reporting	

Frequently Asked Questions

Q. Do I need prior cloud experience?

No. We start from Azure fundamentals and gradually move to advanced data engineering with ADF, Databricks and Synapse.

Q. Will I work on real projects?

Yes. You will build end-to-end data pipelines, lakehouse architecture and real-time streaming use cases.

Q. Is the DP-203 certification covered?

Yes. We provide complete certification guidance for the Microsoft DP-203 Azure Data Engineer Associate exam.

Q. Who can join this course?

Freshers, working professionals, software developers, data analysts, SQL/ETL developers, cloud engineers and BI developers.

Take the Next Step towards Your Azure Data Engineering Career

Develop practical, project-based Azure Data Engineering expertise through structured instructor-led training with complete career support.

- ✓ Live Azure Data Engineer Training
- ✓ Hands-On Labs & Cloud Practice
- ✓ ADF, Databricks, PySpark, Synapse & Delta Lake
- ✓ 4 Real-Time Projects
- ✓ Recorded Sessions & Study Materials
- ✓ Interview Questions & Preparation
- ✓ Resume & Profile Optimization
- ✓ Job Application Assistance
- ✓ Placement Assistance

Learn Azure. Build Pipelines. Work on Real Projects. Get Interview-Ready.

Admissions & Contact

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