

# Azure Data Engineering

Enhance your career with Azure Data Engineering skills. Propel your professional growth. Unlock new opportunities with advanced expertise.



**5 Million**  
Learners



**1:1 Personalized**  
Mentorship



**55% Average**  
Salary Hike



# Azure Data Engineering Program

Jumpstart your Azure data engineering career with expert-led training from top Global Teq faculty. Learn ADLS, SQL, ETL, and more through live sessions with industry

## Hottest Job of 21st Century



### 5 Million Job Postings

There is a global estimate of 5 million job postings of Data Engineers in 2022



### Growing Data Engineering Industry

50% CAGR in the global data industry



### Popular Degree

46% of Data Engineers have a certificate



### Skill Development

Azure Data Engineers are equipped with various relevant skills that fetch lucrative job offers  
**Future oriented Career**



Data Engineering is a budding field; a head start will prove to be beneficial



### High Demand

In 2024, India and the US will face a demand supply gap of 400,000 Data Engineers



**5 Million+**

Aspiring Active Students



**1,000+**

Industry-expert Instructors



**400+**

Hiring Partners



**500+**

Corporates Upskilled



**55%**

Average Salary Hike



**155+**

Countries' Learners

## About Program

Global Teq Certification in Data Engineering provides comprehensive training in SQL, ADLS and ETL Azure through real-world projects.



**Learning Format**  
Online Boot Camp



**7 Months**  
Live Classes



**Career Services**  
by Global Teq



**Global Teq**  
Certification

## Key Highlights

- ✓ 7 Months of Live Sessions by Industry Experts
- ✓ 200 Hrs of Self paced Videos
- ✓ 24\*7 Support
- ✓ Integrated with Global Teq
- ✓ Flexible Schedule
- ✓ Soft Skills Essential Training
- ✓ Career Guidance
- ✓ One on-One with Industry Mentors
- ✓ 50+ Industry Projects & Case Studies
- ✓ E-learning Videos from faculty
- ✓ Lifetime Free Upgrade
- ✓ Dedicated Learning Management Team

## Program Pedagogy



### Instructor-led Training

Get trained by top industry experts



### Hackathons

Get a sense of how real projects are built



### Dedicated Learning Management Team

To help you with your learning needs



### Peer Networking and Group Learning

Improve your professional network and learn from peers



### Self-paced videos

Learn at your own pace with world-class content



### Gamified Learning

Get involved in group activities to solve real-worlds problems



### Projects and Exercises

Get real-world experience of projects



### 1:1 Personalized Learning

Hands-on exercises, project work, quizzes, and capstone projects



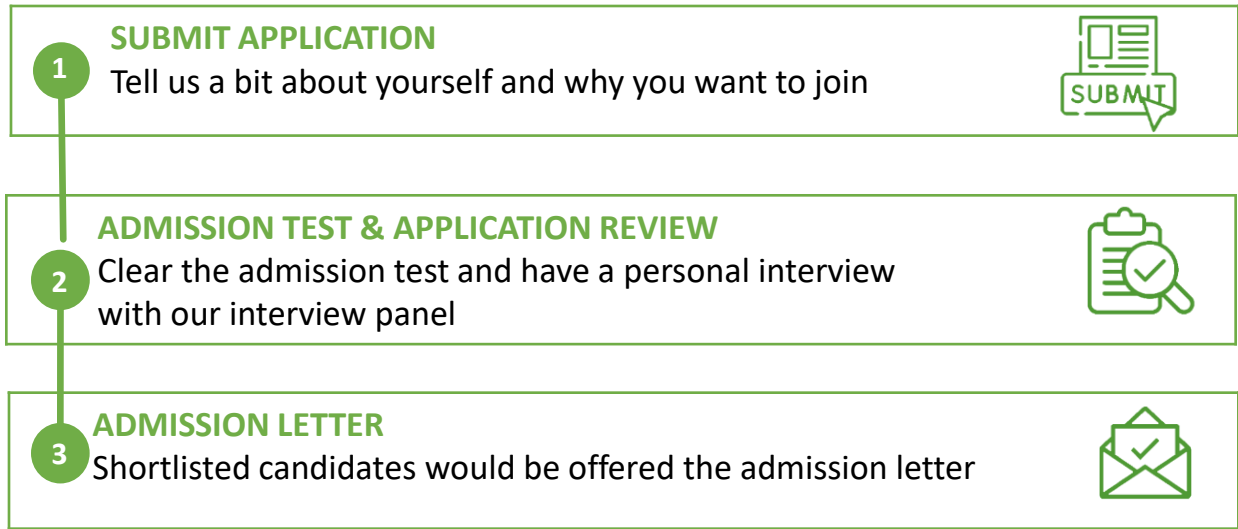
# Who Can Apply for the Course?

- Freshers and Undergraduates willing to pursue a career in data engineering
- Anyone looking for a career transition to data engineering
- IT Professionals
- Experienced Professionals willing to learn data engineering
- Technical and Nontechnical Professionals with basic level programming knowledge can also apply
- Project Managers



## Application Process

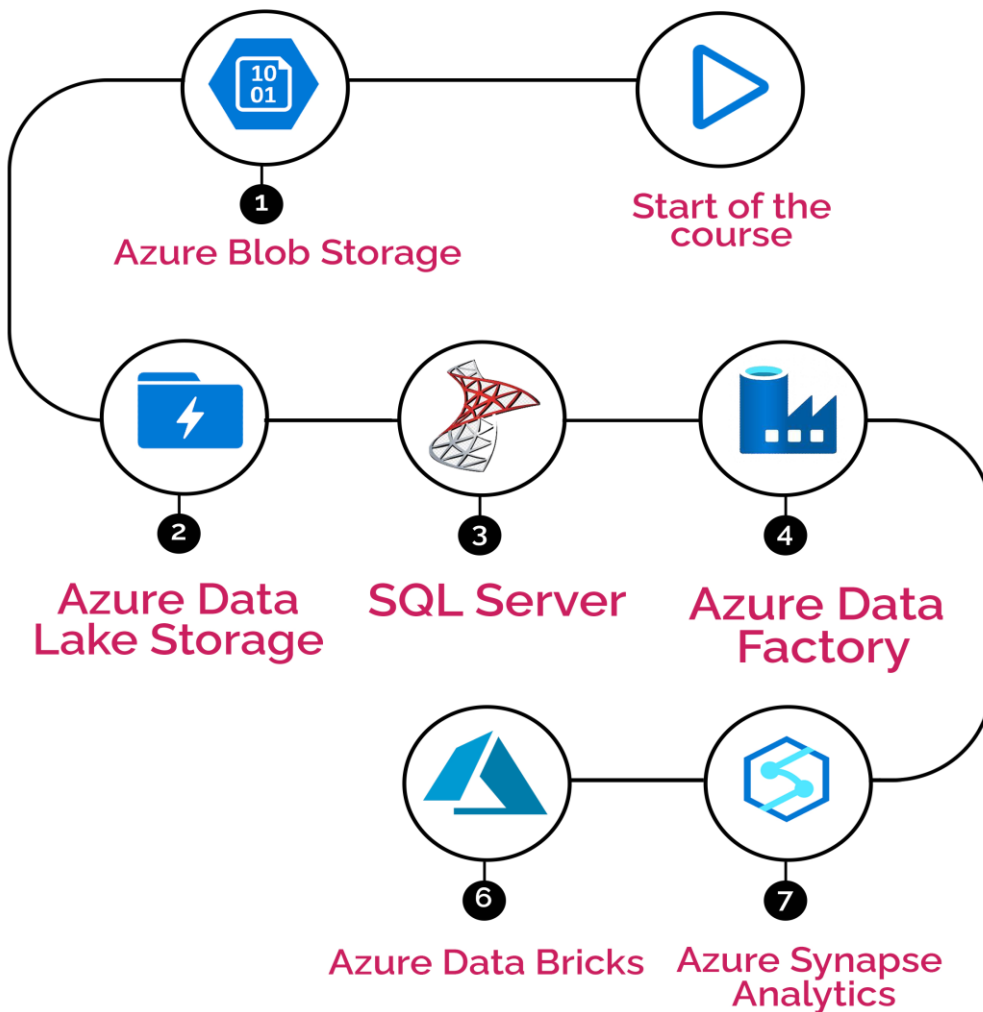
The application process consists of three simple steps. Candidates have to submit their application. An offer of admission will be made to the selected candidates, and their application will be accepted upon the payment of the admission fee.



# Learning Path

## Live Courses

- Live Courses
- Self-paced



## Self-paced Course

- AWS Big Data
- Power BI

# Program Curriculum

## MODULE 1:

### Azure Blob Storage

- Detail knowledge of Blob
- Create a container
- Upload a blob to Azure Storage
- Create a Blob
- List of the blobs in a container
- Delete a container
- Download the blob to your local computer
- Azure Key Vaultgx
- Question and Answers

## MODULE 2:

### Azure Data Lake Storage

- Detail knowledge of Data Lake
- Create Azure Data Lake Gen 2 Account
- Create Folders
- Upload data
- Secure data
- Delete Azure Data Lake
- Question Answer
- Understand Azure Storage & Create Azure Storage Account
- Azure Data Lake Storage (ADLS)
- Understand Azure File Share
- Lab: Azure File Share
- Understand Azure Queue Services
- Lab: Azure Queue Services
- Understand Azure Table Service
- Lab: Azure Table Service
- Lab: Azure Storage Explorer

- Azure Storage Access Keys and SAS token
- Assignment 1: Azure Storage Account

## MODULE 3:

### Azure SQL Server

- Introduction To Azure SQL
- Create Azure SQL server and enable private IP
- Create Database, table and insert Data
- Queries for Azure SQL
- Access Azure SQL from SSMS and Query it
- Migration of Databases from On Premise to Cloud using the DMA
- Migration of Databases from On Premise to Cloud using the Wizard
- Secure data
- Perform DML activities on Data
- Question Answer

## MODULE 4:

### Azure Data Factory

What is ETL?

ETL vs ELT

Introduction to Azure Data Factory

Activities

Copy Data

Set Variable

- Get Metadata
- For Each
- Append Variable
- Delete
- Lookup
- Stored procedure
- Filter
- IF
- Switch
- Execute Pipeline
- Transformations in Dataflow
- Sort
- Filter
- Derived
- Conditional split
- Cast
- Surrogate
- Aggregate
- Pivot
- Unpivot
- Rank
- Window
- Union
- Lookup
- Exists
- Join
- Integration Run Time
- Link Service
- Datastore
- Connect Datastore
- Create Pipeline
- Data factory Triggers

- Debug Pipeline
- Schedule Pipeline
- Monitor Pipeline
- Alert Rule
- Lab
- Question Answer

## MODULE 5:

### Azure Data Bricks

- Detail knowledge of Data Bricks
- Delta Lake
- Configure Data Bricks
- Mount Storage
- Notebook
- Read Data
- Store Data
- Create multiple Notebook
- Create Table and Delta table
- User defined functions
- Create Master Notebook
- Implement Loop
- Implement Retry Mechanism
- Schedule Notebook
- Question Answer
- Create Job
- Job Clusters
- Pyspark Basics
- Logging
- Integration with Azure Blob storage

- Integration With Azure SQL Storage
- Hadoop Introduction
- Spark Overview
- Lab: Azur Databricks Workspace creation
- Lab: Reading File and transformations
- Lab: Aggregation, Joins, Sorting
- Lab: Spark SQL
- Lab: Action vs Transformation, Shuffling, Partitioning
- Lab: Azure Databricks Mount ADLS
- Lab: ADF and Azure data bricks integration
- Lab: Spark Delta tables
- Lab: Azure Databricks Cluster management
- Lab: Azure Databricks Job Scheduling
- Lab: Azure Databricks Streaming
- Databricks utilities and library installations
- Question Answer

## MODULE 6:

### Azure Synapse Analytics

- Azure Synapse Introduction and account creation
- MPP architecture
- Design Synapse Pipelines
- SQL pools
- Spark Cluster
- Azure Synapse Lab
- Azure Synapse Assignment

## Skills to Master

- Blob Storage
- ADLS
- SQL
- DML
- ETL
- Data Bricks
- Synapse Analytics

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- Azure Data Engineer – Developer best practices
  - Optimizations Techniques
  - Implementation of End to End Project



# Global Teq Career Services



**500+**  
Webinars



**600+**  
Job Shares



**400+**  
Hiring Partners



**55%**  
Avg. Salary Hike\*

## What Makes Us **Tick**



### Career-oriented Sessions

Attend 10+ career-oriented sessions by industry mentors and prepare your career trajectory



### Profile Building

Craft a Data Engineers resume and LinkedIn profile to make an impression on top employers



### Mock Interview Preparation

Prepare with mock interviews including most asked questions by top employers



### 1:1 Mentoring Sessions

Get 1:1 guidance at every step in your career transition to Data Engineers



### Assured Interviews

Get job Opportunities with Top MNC's & Startups upon movement to Placement Pool\*\*



### Dedicated Job Portal Access

Get exclusive access to 200 job postings per month on Intellipaat's job portal



### Job Fairs

Job fairs are conducted regularly to introduce learners to major organizations



### Hackathons

Work in teams and get exclusive access to hackathons

## Learner **Reviews**

### Michael L.

Remote Learner

"Accessing best-in-class courses from the comfort of my home has been a big convenience. I can learn anytime, anywhere, thus allowing me to be balanced in my remote work lifestyle, without giving up on my education goals."

### Emma T.

Skill Builder

"The interactive bits and real-life use cases of these courses keep me engaged and motivated. Since starting, I've completed five certifications, and I feel significantly more confident in being able to tackle complex projects at work."

### David M.

Lifelong Learner

"This platform gave me the opportunity to learn incessantly without having to leave my job. With flexibility in time and course options, I stayed ahead in my field and was able to build my expertise continuously."



## About Global Teq

Global Teq is a global knowledge enhancement company that empowers thousands of professionals every year with skills needed for new age businesses. We enable continuous learning through certification and training programs in project management, IT service management and quality management. Global Teq believes that education in this fast-paced world is enriching when it is accessible anywhere, anytime. We have partnered with leading technologists to make that a reality. Thousands of professionals and students benefit from our 24x7 access to online course ware that has been developed by SME's.

Five reasons why we're the most preferred training partners

- We strive to provide quality education via technological platforms and personal guidance
- Our instructors and trainers are among the best in the industry
- The course ware is constantly evaluated and upgraded to reflect the latest industry trends and practices
- The service team offers unparalleled support, speedy assistance and query resolution
- A dedicated forum to interact with peers, industry experts and other certified professionals



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