

PROFESSIONAL COURSE OUTLINE

VNode ITeS

Azure Data Engineering with Databricks

Program aligned

A hands-on data engineering program covering end-to-end pipeline development on Azure, from raw ingestion through transformation to serving. Participants work with Apache Spark, Delta Lake, and Azure Data Factory under real pipeline design constraints, not simplified examples.

Data

Intermediate

PROGRAM CODE

Program aligned

DELIVERY

Virtual or On-site

DURATION

5 days

CERTIFICATION

Available on request

AUDIENCE PROFILE

Who This Program Is For

Data engineers and architects building or modernizing data platforms on Azure

PROGRAM SUMMARY

What This Course Covers

Build scalable data pipelines using Azure Databricks, Delta Lake, and Apache Spark. Covers medallion architecture and ADF integration.

TAILORED DELIVERY

Adapt the program around your team.

This outline can be adapted for virtual, on-site, or hybrid delivery, with emphasis adjusted for your team's platform priorities, role mix, and implementation goals.

Enterprise-ready delivery format

VNode ITeS can align labs, examples, delivery pace, and assessment checkpoints to the required audience profile while preserving the official program sequence where applicable.

COMPLETE MODULE SEQUENCE

Module Flow and Topic Coverage

The structure below presents the current delivery flow for this program, including the associated topics covered under each module.



Plan the next session

We can tune this outline around your delivery goals and team mix.

TALK TO US

 info@vnodeites.com +91 9419 11 4792 +91 9419 11 4792

Serving enterprise clients across India and global markets

OFFICE

Wework, DLF Forum Infinity Tower C, Gurugram, INDIA

Serving enterprise clients across India and global markets

Page 1 of 2

1

MODULE 1

Delta Lake and Medallion Architecture

Design and implement Bronze-Silver-Gold pipeline patterns using Delta Lake, schema management, and incremental processing for scalable data platforms.

- implement Bronze-Silver-Gold pipeline patterns using Delta Lake
- schema management
- and incremental processing for scalable data platforms

2

MODULE 2

Apache Spark Optimization

Write and tune Spark jobs for cost-efficient processing at enterprise scale, covering partitioning, caching, and cluster configuration.

- tune Spark jobs for cost-efficient processing at enterprise scale
- covering partitioning
- and cluster configuration

3

MODULE 3

Azure Data Factory Orchestration

Build ADF-triggered pipeline workflows that invoke Databricks compute, monitor job runs, and handle failures with retry and alerting logic.

- Build ADF-triggered pipeline workflows that invoke Databricks compute
- monitor job runs
- and handle failures with retry
- alerting logic

4

MODULE 4

Data Quality and Unity Catalog

Implement data quality checks, lineage tracking, and catalog-level governance using Databricks Unity Catalog for enterprise data reliability.

- Implement data quality checks
- lineage tracking
- and catalog-level governance using Databricks Unity Catalog for enterprise data reliability

**Plan the next session**

We can tune this outline around your delivery goals and team mix.

TALK TO US

 info@vnodeites.com

 +91 9419 11 4792

 +91 9419 11 4792

Serving enterprise clients across India and global markets

OFFICE

Wework, DLF Forum Infinity Tower C, Gurugram, INDIA

Serving enterprise clients across India and global markets

Page 2 of 2