

2Days - Databricks Workshop Updated TOC

Day 1 — Databricks Quality Engineering Strategy & Architecture— 8 Hours

(Strategy + Architecture + Native Databricks Validation)

Module 1 — Enterprise Lakehouse Quality Engineering Blueprint

- 2 Hours

- QA Strategy for Bronze → Silver → Gold
 - QE in Data Mesh & Domain-driven Pipelines
 - How QE contributes to **Deal wins & RFP scoring**
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Module 2 — Databricks Native Data Validation Framework

- 2.5 Hours (with short demo)

- Delta Expectations & DLT Validation
 - SLA-driven Workflows & Breakpoints
 - Cost Savings: Native validation vs Additional Tools
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Module 3 — Data Contracts, Governance & Observability

- 2 Hours

- Unity Catalog: Schema Enforcement & Access Controls
 - Lineage-based Compliance for Business KPIs
 - Operational Data Quality Scorecards
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Module 4 — Intelligent Validation Automation at Scale

- 1.5 Hours

- Rule Automation + Audit Trails
 - Databricks AI Functions for Anomaly Detection
 - Photon — When performance testing matters
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Day 2: AI-driven QE + Business Narrative and RFP Practicum) 4 Hours

Module 5 — AI & Agents for Data Quality

-1.5 Hours (*Demo included*)

- AI Agents for Drift, RCA & Metadata Search
 - Lightweight RAG with Databricks Vector Search
 - Auto Rule Generation for QE Teams
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Module 6 — MLflow Governance for Data & Models

- 1 Hour

- Monitoring Data Freshness & Feature Drift
 - Explainability for Business & Regulatory teams
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Module 7 — Retail/CPG QE Solutioning Case Study (Workshop)

- 1 Hour (*Group activity*)

- Product Master & Inventory Quality Validation
 - Business outcomes: Faster insights, reduced escalations
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Module 8 — RFP Narrative & Final Architecture Pitch

- 30 Minutes

- QE Differentiation Storyline for Proposals
- Architecture + Value proposition templates
- Next skills roadmap / Certification discussion