



DATABRICKS TRAINING

Azure Databricks

Master Azure Databricks to process and analyze big data at scale. Build powerful data engineering and machine learning solutions.

DURATION

Flexible

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

Dive deep into the world of unified data analytics with our Azure Databricks course, designed for IT professionals seeking to master scalable data engineering, machine learning, and analytics on Microsoft's cloud platform. This intermediate-level program provides a comprehensive understanding of Azure Databricks, a powerful, Apache Spark-based analytics platform optimized for Azure. You will learn to leverage its capabilities for processing vast datasets, building robust ETL pipelines with Delta Lake, and developing cutting-edge machine learning solutions using MLflow, all within a collaborative and high-performance environment. This course is meticulously structured to equip you with the practical skills needed to transform raw data into actionable insights and intelligent applications.

You'll gain expertise in managing data at scale, optimizing Spark workloads, and integrating Databricks with other Azure services for a complete end-to-end data solution. By mastering Azure Databricks, you will significantly enhance your ability to contribute to data-driven decision-making, accelerate innovation, and drive business value in various industries, positioning yourself as a crucial asset in any modern data team.

Level	Intermediate
Vendor	Databricks

COURSE CURRICULUM

01 Module 1: Foundations of Azure Databricks and Apache Spark

- Introduction to Azure Databricks Architecture and Workspace
- Apache Spark Core Concepts and Architecture
- Databricks Notebooks and Collaborative Environment
- Working with DataFrames and Spark SQL
- Cluster Management and Optimization on Azure

02 Module 2: Data Engineering with Delta Lake

- Introduction to Delta Lake: ACID Transactions and Schema Enforcement
- Building ETL Pipelines with Delta Lake
- Streaming Data Ingestion with Spark Structured Streaming
- Data Versioning and Time Travel
- Optimizing Delta Lake Tables for Performance

03 Module 3: Advanced Data Processing and Integration

- Advanced Spark Transformations and Joins
- User-Defined Functions (UDFs) and Performance Considerations
- Integrating Databricks with Azure Data Lake Storage Gen2 and Azure Synapse Analytics
- Data Governance and Security Best Practices in Databricks
- Monitoring and Logging Databricks Workloads

04 Module 4: Machine Learning with Databricks and MLflow

- Introduction to Machine Learning Workflows on Databricks
- Feature Engineering and Data Preparation for ML
- Model Training and Hyperparameter Tuning with Spark MLlib
- MLflow for Experiment Tracking, Model Management, and Deployment
- Integrating with Azure Machine Learning Service

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Data Engineer**
- > **Machine Learning Engineer (Databricks Specialist)**
- > **Cloud Data Architect**

FREQUENTLY ASKED QUESTIONS

Q: What are the essential prerequisites for enrolling in this Azure Databricks course?

This intermediate course assumes a foundational understanding of data concepts, SQL, and basic programming skills (preferably Python or Scala). Prior exposure to cloud computing concepts (especially Azure) and distributed computing would be highly beneficial, though not strictly mandatory as core concepts are reviewed.

Q: How will mastering Azure Databricks enhance my ability to design and implement scalable data solutions in real-world scenarios?

This course focuses on practical application. You will learn to build robust ETL pipelines using Delta Lake, process large datasets efficiently with Apache Spark, and manage the entire machine learning lifecycle with MLflow. These skills are directly applicable to developing high-performance data platforms, enabling real-time analytics, and deploying production-ready ML models for various business needs.

Q: What specific skills will I gain that are crucial for a career as an Azure Data Engineer or Machine Learning Engineer using Databricks?

You will gain expertise in optimizing Spark workloads, implementing data lakehouses with Delta Lake, performing complex data transformations, and leveraging MLflow for end-to-end machine learning project management. These skills are critical for designing scalable data architectures, ensuring data quality, and deploying intelligent solutions within the Azure ecosystem, making you highly valuable for roles requiring advanced data processing and ML capabilities.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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