



MICROSOFT TRAINING

DP-203: Data Engineering on Microsoft Azure

Master Microsoft Azure data engineering. Learn to design and implement scalable data solutions, earning your DP-203 certification.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This specialized course, "DP-203: Data Engineering on Microsoft Azure," is meticulously designed to equip aspiring and experienced data professionals with the essential skills to build and manage robust data solutions on the Azure platform. Participants will delve deep into core Azure data services, mastering the art of designing and implementing data storage, processing, and security solutions. The curriculum emphasizes practical application, covering everything from implementing data processing using Azure Data Factory, Azure Databricks, and Azure Synapse Analytics to deploying real-time analytics with Azure Stream Analytics and Cosmos DB.

Upon completion, you will possess the expertise to design and implement secure, scalable, and highly available data solutions that meet modern business requirements. This certification validates your ability to perform critical data engineering tasks, including data ingestion, transformation, and storage across various data sources, leveraging Azure's comprehensive suite of services. Earning the Microsoft Certified: Azure Data Engineer Associate certification signifies your proficiency in optimizing data solutions for performance and cost, positioning you as a valuable asset in any data-driven organization looking to harness the power of cloud computing.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	DP-203

COURSE CURRICULUM

01 Module 1: Azure Data Storage Design and Implementation

- Designing and implementing data lake solutions with Azure Data Lake Storage Gen2
- Working with Azure Blob Storage for unstructured data
- Implementing relational data stores: Azure SQL Database and Azure Synapse Analytics (Dedicated SQL Pool)
- Leveraging Azure Cosmos DB for NoSQL data solutions
- Configuring data partitioning and indexing strategies

02 Module 2: Developing Batch Processing Solutions

- Ingesting and transforming data using Azure Data Factory pipelines
- Implementing data transformations and data flow activities
- Developing batch processing solutions with Azure Databricks (Spark notebooks)
- Integrating data sources and destinations within data pipelines
- Monitoring and troubleshooting Azure Data Factory and Databricks jobs

03 Module 3: Building Real-time Processing Solutions

- Designing and implementing stream processing with Azure Stream Analytics
- Handling real-time data ingestion and analysis from various sources (IoT Hub, Event Hubs)
- Implementing change data capture with Azure Synapse Link or other methods
- Processing semi-structured and unstructured data streams in real-time
- Setting up alerts and reactions for stream processing anomalies

04 Module 4: Data Security, Monitoring, and Optimization

- Implementing security for data at rest and in transit (encryption, access controls, network security)
- Monitoring data processing workloads and storage using Azure Monitor, Log Analytics, and Azure Synapse Studio

- Troubleshooting performance issues and optimizing data solutions (query optimization, data compaction)
- Implementing data governance and compliance best practices in Azure
- Managing costs of Azure data services

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Data Engineer**
- > **Cloud Data Architect (Azure Specialist)**
- > **Senior Business Intelligence Developer (Azure Ecosystem)**

FREQUENTLY ASKED QUESTIONS

Q: What specific data engineering skills will I master by completing the DP-203 certification course?

This course is designed to provide comprehensive mastery over key data engineering skills on Azure. You will gain proficiency in designing and implementing scalable data storage solutions using Azure Data Lake Storage Gen2, Azure Synapse Analytics, and Azure Cosmos DB. You'll learn to develop robust data processing pipelines with Azure Data Factory and Azure Databricks for both batch and real-time scenarios, including expertise in Azure Stream Analytics. Furthermore, you will master data security implementation, performance optimization, and monitoring techniques essential for production-grade Azure data solutions.

Q: What are the recommended prerequisites for someone looking to enroll in the DP-203: Data Engineering on Microsoft Azure course?

While there are no strict formal prerequisites, it is highly recommended that participants have a foundational understanding of core data processing concepts, including relational and non-relational data, and basic knowledge of data manipulation languages like SQL. Some prior exposure to cloud computing concepts, preferably with Azure, and a basic understanding of programming concepts (e.g., Python or Scala) would be beneficial to maximize your learning experience in this intermediate-level course.

Q: How does achieving the DP-203 certification specifically enhance my career opportunities as a data professional in Kenya?

Earning the DP-203 certification positions you as a Microsoft Certified Azure Data Engineer Associate, a highly sought-after credential in Kenya's rapidly growing IT and data analytics sector. This certification validates your ability to design, implement, and monitor data solutions using Azure services, directly aligning with the needs of local and international companies adopting cloud-first strategies. It will significantly boost your marketability for roles such as Azure Data Engineer, Cloud Data Architect, or Senior BI Developer, providing a competitive edge and potentially leading to higher earning potential and more advanced project opportunities within various industries.

ABOUT COMPUTER PRIDE

**computerpride*****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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