DevOpsSchool

Course curriculum · November 2026

AZURE · TRAINING PROGRAM

Azure Databricks Course

A practical, hands-on Azure Databricks Course curriculum: 145 topics over 7 days. Learn live online in a small batch, as a private corporate batch, or self-paced with one year of LMS access.

LIVE ONLINE **Max 8-10 hours**	CORPORATE **Private team batch, on demand**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

INSIDE THIS CURRICULUM

Who should attend	Objectives, audience, prerequisites
Agenda	145 topics over 7 days
Formats and fees	Live, 1:1, self-paced, corporate
Trainer and reviews	Rajesh Kumar
Enrolment	Batches, payment, contacts

WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

Course page: www.devopsschool.com/courses/azure/azure-databricks.html
Talk to us: WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

COURSE FIT

Who this program is for

Use this page to decide whether Azure Databricks Course matches your role and experience.

1

Objectives

Understand the core concepts and usage model, apply practical workflows through examples and guided tasks, and prepare for implementation, certification or team adoption.

2

Who should attend

Developers, DevOps engineers, administrators, SREs, security engineers, platform teams, release teams, technical leads and corporate teams working with this topic.

3

Before you start

Basic computer literacy and awareness of software, operations, cloud, DevOps or security workflows is helpful. Deep programming experience is not needed unless the topic requires it.

AGENDA AT A GLANCE · 145 TOPICS OVER 7 DAYS

Day 1
34 topics · Getting Started with Azure

Day 2
17 topics · Azure Data Platform - RDBMS (SQL Server and PostGre), NoSQL - Cosmo DB

Day 3
8 topics · Data Lake - Azure Storage Account - Blobs, Containers, File Share etc

Day 4
16 topics · Azure Data Factory (Pipeline, ETL Process)

Day 5
34 topics · Azure Databricks (Clusters, PySPark, Jobs) - ETL Process and Analysis

Day 6
18 topics · Azure Data Bricks and ADF Integration, Monitoring, troubleshooting, Maintenance

Day 7
18 topics · Azure Automation with ARM Templates

AGENDA · 145 TOPICS OVER 7 DAYS

Azure Databricks Course agenda

Days are for corporate (day-wise) delivery; live online batches cover the agenda in max 8-10 hours.

DAY 1

34 topics

1. Getting Started with Azure
2. Describe Cloud Concepts for Data
3. Identify the benefits and considerations of using cloud services
4. identify the benefits of cloud computing, such as High Availability, Scalability, Elasticity,
5. Agility, and Disaster Recovery
6. identify the differences between Capital Expenditure (CapEx) and Operational
7. Expenditure (OpEx)
8. describe the consumption-based model
9. Describe the differences between categories of cloud services
10. describe the shared responsibility model
11. describe Infrastructure-as-a-Service (IaaS),
12. describe Platform-as-a-Service (PaaS)
13. describe serverless computing
14. describe Software-as-a-Service (SaaS)
15. identify a service type based on a use case
16. Describe the differences between types of cloud computing
17. define cloud computing
18. describe Public cloud
19. describe Private cloud
20. describe Hybrid cloud
21. compare and contrast the three types of cloud computing.
22. Describe core solutions and management tools on Azure
23. describe the benefits and usage of Internet of Things (IoT) Hub, IoT Central
24. describe the benefits and usage of Azure Synapse Analytics, HDInsight, and Azure Databricks
25. Describe the benefits and usage of serverless computing solutions that include Azure
26. Functions and Logic Apps for data
27. describe the benefits and usage of Azure DevOps, GitHub, GitHub Actions, and Azure
28. DevTest Labs
29. Develop for Azure storage
30. Understanding Data Lake, Delta Lake for data processing and storage
31. Develop solutions that use storage tables
32. design and implement policies for tables
33. query table storage by using code
34. implement partitioning schemes

DAY 2

17 topics

35. Azure Data Platform - RDBMS (SQL Server and PostGre), NoSQL - Cosmo DB
36. Develop solutions that use Cosmos DB storage
37. create, read, update, and delete data by using appropriate APIs
38. implement partitioning schemes
39. set the appropriate consistency level for operations
40. Develop solutions that use a relational database
41. provision and configure relational databases
42. configure elastic pools for Azure SQL Database
43. create, read, update, and delete data tables by using code
44. provision and configure Azure SQL Database serverless instances
45. provision and configure Azure SQL and Azure PostgreSQL Hyperscale instances
46. Develop solutions that use blob storage
47. move items in Blob storage between storage accounts or containers
48. set and retrieve properties and metadata
49. implement blob leasing
50. implement data archiving and retention
51. implement Geo Zone Redundant Storage

DAY 3

8 topics

52. Data Lake - Azure Storage Account - Blobs, Containers, File Share etc
53. Implement access control for data
54. mplement CBAC (Claims-Based Access Control) authorization
55. implement RBAC (Role-Based Access Control) authorization
56. create shared access signatures
57. Implement secure data solutions
58. encrypt and decrypt data at rest and in transit
59. create, read, update, and delete keys, secrets, and certificates by using the KeyVault API

DAY 4

16 topics

60. Azure Data Factory (Pipeline, ETL Process)
61. Design and Develop Data Processing
62. Ingest and transform data
63. transform data by using Apache Spark
64. transform data by using Transact-SQL
65. transform data by using Data Factory
66. transform data by using Azure Synapse Pipelines
67. transform data by using Stream Analytics
68. cleanse data

69. split data
70. shred JSON
71. encode and decode data
72. configure error handling for the transformation
73. normalize and denormalize values
74. transform data by using Scala
75. perform data exploratory analysis

DAY 5 34 topics

76. Azure Databricks (Clusters, PySPark, Jobs) - ETL Process and Analysis
77. Design and develop a batch processing solution
78. develop batch processing solutions by using Data Factory, Data Lake, Spark, Azure
79. Synapse Pipelines, PolyBase, and Azure Databricks
80. create data pipelines
81. design and implement incremental data loads
82. design and develop slowly changing dimensions
83. handle security and compliance requirements
84. scale resources
85. configure the batch size
86. design and create tests for data pipelines
87. integrate Jupyter/Python notebooks into a data pipeline
88. handle duplicate data
89. handle missing data
90. handle late-arriving data
91. upsert data
92. regress to a previous state
93. design and configure exception handling
94. configure batch retention
95. design a batch processing solution
96. debug Spark jobs by using the Spark UI develop a stream processing solution by using Stream Analytics, Azure Databricks, and
97. Azure Event Hubs
98. process data by using Spark structured streaming
99. monitor for performance and functional regressions
100. design and create windowed aggregates
101. handle schema drift
102. process time series data
103. process across partitions
104. process within one partition
105. configure checkpoints/watermarking during processing
106. optimize pipelines for analytical or transactional purposes

107. handle interruptions
108. replay archived stream data
109. design a stream processing solution

DAY 6

18 topics

110. Azure Data Bricks and ADF Integration, Monitoring, troubleshooting, Maintenance
111. Manage batches and pipelines
112. trigger batches
113. handle failed batch loads
114. validate batch loads
115. manage data pipelines in Data Factory/Synapse Pipelines
116. schedule data pipelines in Data Factory/Synapse Pipelines
117. implement version control for pipeline artifacts
118. manage Spark jobs in a pipeline
119. Monitor and Optimize Data Storage and Data Processing Monitor data storage and data processing
120. mplement logging used by Azure Monitor
121. configure monitoring services
122. measure performance of data movement
123. monitor and update statistics about data across a system
124. monitor data pipeline performance
125. measure query performance
126. monitor cluster performance
127. understand custom logging options

DAY 7

18 topics

128. Azure Automation with ARM Templates
129. schedule and monitor pipeline tests
130. interpret Azure Monitor metrics and logs
131. interpret a Spark directed acyclic graph (DAG)
132. Optimize and troubleshoot data storage and data processing
133. compact small files
134. rewrite user-defined functions (UDFs)
135. handle skew in data
136. handle data spill
137. tune shuffle partitions
138. find shuffling in a pipeline
139. optimize resource management
140. tune queries by using indexers
141. tune queries by using cache
142. optimize pipelines for analytical or transactional purposes

143. optimize pipeline for descriptive versus analytical workloads
144. troubleshoot a failed spark job
145. troubleshoot a failed pipeline run

HOW YOU CAN LEARN

Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

FORMAT	DURATION	WHAT YOU GET	FEE
Live & interactive (online)	Max 8-10 hours	Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month.	**INR 34,999**
1:1 live training (online)	Max 8-10 hours, one-to-one	The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace.	**INR 99,999**
Self-paced video	1-year LMS access	This program plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate	Planned with your team	A private batch for your team, on demand, with examples mapped to your platforms.	**Quote on request**

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on tasks and assignments. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

20 years in industry	**200+** corporate trainings
10,000+ engineers mentored	**70+** organisations coached

REVIEWS

What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR TRAINING

Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All courses: www.devopsschool.com/courses/

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Azure Databricks Course

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