



MICROSOFT TRAINING

DP-090: Implementing a Machine Learning Solution with Microsoft Azure Databricks — Practice Questions

Prepare for DP-090 by practicing implementing ML solutions with Microsoft Azure Databricks. Master key concepts to pass your exam and build robust ML applications.

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 course offers an intensive, targeted preparation experience for the Microsoft DP-090: Implementing a Machine Learning Solution with Microsoft Azure Databricks certification exam. Designed for IT professionals, data scientists, and ML engineers, this practice questions course allows you to solidify your understanding of critical concepts, identify knowledge gaps, and master the exam format. You will delve into core technologies such as Azure Databricks, Spark MLlib, Azure Machine Learning, and various data manipulation and model deployment strategies within the Azure ecosystem, ensuring comprehensive coverage of the official exam objectives. Engaging with these meticulously crafted practice questions will not only boost your confidence but also refine your ability to design, build, and deploy robust machine learning solutions using Azure Databricks. By simulating the actual exam environment and question types, this course ensures you are thoroughly prepared for the challenges of the DP-090 certification. Earning this certification validates your expertise in leveraging Azure Databricks for end-to-end machine learning workflows, significantly enhancing your professional credibility and opening doors to advanced roles in cloud-based AI and data science.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	DP-090

COURSE CURRICULUM

01 Module 1: Foundations of Azure Databricks for ML

- Understanding Azure Databricks architecture and components
- Databricks Workspaces and cluster configuration best practices
- Introduction to core machine learning concepts within Databricks
- Integrating Databricks with essential Azure services (e.g., ADLS, Key Vault)

02 Module 2: Data Preparation and Feature Engineering

- Ingesting and transforming diverse datasets with Spark DataFrames
- Advanced data cleaning and validation techniques for ML
- Implementing feature engineering using PySpark and Spark MLlib
- Working with various data formats in Databricks (Delta Lake, Parquet, CSV)

03 Module 3: Model Training and Evaluation

- Training and tuning various machine learning models (classification, regression, clustering)
- Utilizing MLflow for robust experiment tracking and model versioning
- Hyperparameter tuning strategies and model optimization techniques
- Evaluating model performance using industry-standard metrics

04 Module 4: Model Deployment and Management

- Registering and managing models within the MLflow Model Registry
- Deploying trained models to Azure Machine Learning endpoints for inference
- Implementing batch inference solutions using Azure Databricks
- Considerations for real-time model inference and API integration

05 Module 5: Monitoring, Debugging, and Optimization

- Monitoring deployed ML models for performance degradation and data drift

- Troubleshooting common machine learning issues in Databricks environments
- Optimizing Spark jobs for efficient ML workloads
- Implementing security best practices for ML solutions on Azure Databricks

06 Module 6: DP-090 Exam Strategies and Simulation

- Comprehensive review of key DP-090 exam domains and objectives
- Detailed breakdown and analysis of practice question types
- Effective time management techniques for the certification exam
- Full-length simulated practice tests to gauge exam readiness

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure ML Engineer specializing in Databricks**
- > **Cloud Data Scientist with Azure Expertise**
- > **AI Solutions Architect focused on Microsoft Azure**

FREQUENTLY ASKED QUESTIONS

Q: How will this practice questions course specifically enhance my preparation for the DP-090 certification exam, given it's not a full instructional course?

This course is meticulously designed to mirror the structure, difficulty, and question types of the actual DP-090 exam. It provides scenario-based and multiple-choice questions covering all official exam domains, allowing you to not only test your knowledge but also understand the nuances of how questions are phrased. Detailed explanations for each answer help you grasp underlying concepts, identify areas for improvement, and build confidence in your ability to pass the certification.

Q: What prerequisite knowledge or experience should I have before enrolling in this DP-090 practice questions course to maximize my learning?

While this course focuses on practice questions, a foundational understanding of machine learning concepts (e.g., model types, evaluation metrics), basic Python programming, and familiarity with Azure services, particularly Azure Databricks basics, is highly recommended. It's ideal for those who have already studied the core DP-090 content or have hands-on experience with Databricks for data engineering and machine learning tasks and are now looking to validate and refine their knowledge for the exam.

Q: Beyond preparing for the certification, what practical, real-world skills will I solidify by working through the practice questions in this DP-090 course?

Engaging with these practice questions will reinforce your practical ability to implement end-to-end machine learning solutions on Azure Databricks. You will solidify skills in data ingestion and transformation using Spark, feature engineering, model training with MLflow, hyperparameter tuning, and deploying models for both batch and real-time inference. Furthermore, you'll improve your critical thinking in solving common challenges related to ML pipeline development, security, and optimization within a cloud environment, making you more effective in a professional setting.

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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