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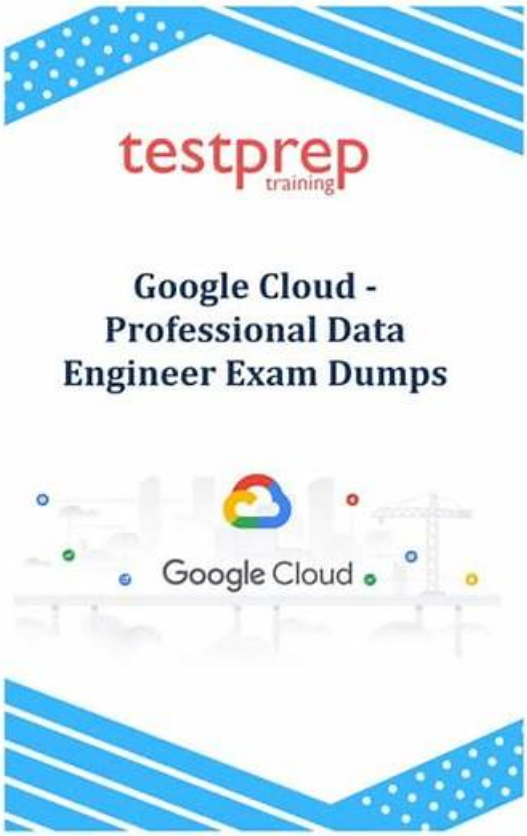


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Google Professional-Data-Engineer Certification Exam is designed for individuals who want to demonstrate their expertise in designing and building data processing systems on the Google Cloud Platform. As a Google Certified Professional Data Engineer, you will be recognized as an expert in the field and have the skills to create scalable and efficient data processing systems that leverage Google Cloud technologies. Google Certified Professional Data Engineer Exam certification is ideal for data engineers, data architects, solutions architects, and anyone who wants to validate their skills in building and managing data processing systems in the cloud.

## Conclusion

Don't wait and enroll in these training courses offered by the official vendor that will help you ace the Professional Data Engineer exam with a good score. Once you take this exam and earn the prestigious Professional Data Engineer certification, you will get a chance to obtain a high-paying job and an amazing opportunity to work with the experts. Don't waste your time on other tasks and start preparing for this exam today. The more you practice the more you will get closer to success as a data analyst or data engineer. Moreover, it will polish your skills throughout and allow you to efficiently in well-reputed companies.

**>> Exam Professional-Data-Engineer Practice <<**

# Google Professional-Data-Engineer Exam Questions - Guaranteed Success

All Professional-Data-Engineer online tests begin somewhere, and that is what the Professional-Data-Engineer training course will do for you: create a foundation to build on. Study guides are essentially a detailed Professional-Data-Engineer tutorial and are great introductions to new Professional-Data-Engineer training courses as you advance. The content is always relevant, and compound again to make you pass your Professional-Data-Engineer Exams on the first attempt. You will frequently find these Professional-Data-Engineer PDF files downloadable and can then archive or print them for extra reading or studying on-the-go.

## This course will show you how to manage big data including loading, extracting, cleaning, and validating data. At the end of the training, you can easily create machine learning and statistical models as well as visualizing query results. This program is a bit lengthy but you have to practice well to get the knowledge needed on the actual exam. These are the following modules covered in the course:

- Production ML Pipelines and use of Kubeflow
- Prebuilt ML Models APIs for Unsaturated Data
- Custom Model building Utilizing Cloud AutoML
- Serverless Messaging Using Cloud Sub/Pub
- Introduction to Data Engineering
- Custom Model building Using SQL in BigQuery ML
- Serverless Data Processing with Cloud Dataflow
- Handling Data Pipelines with Cloud Composer and Cloud Data Fusion
- Building a Data Warehouse
- Big Data Analytics with Cloud Al Platform Notebook
- Advanced BigQuery Performance and Functionality
- Introduction to Building Batch Data Pipelines

These modules involve everything the candidate requires for passing the Professional Data Engineer certification exam. Thus, you will not miss anything if you are taking this learning program keenly and apply the required knowledge in an appropriate way. You would end up getting a good score and achieving the Google Professional Data Engineer certification.

## Google Certified Professional Data Engineer Exam Sample Questions (Q80-Q85):

**NEW QUESTION # 80**
MJTelco Case Study
Company Overview
MJTelco is a startup that plans to build networks in rapidly growing, underserved markets around the world. The company has patents for innovative optical communications hardware. Based on these patents, they can create many reliable, high-speed backbone links with inexpensive hardware.
Company Background
Founded by experienced telecom executives, MJTelco uses technologies originally developed to overcome communications challenges in space. Fundamental to their operation, they need to create a distributed data infrastructure that drives real-time analysis and incorporates machine learning to continuously optimize their topologies. Because their hardware is inexpensive, they plan to overdeploy the network allowing them to account for the impact of dynamic regional politics on location availability and cost.
Their management and operations teams are situated all around the globe creating many-to-many relationship between data consumers and provides in their system. After careful consideration, they decided public cloud is the perfect environment to support their needs.
Solution Concept
MJTelco is running a successful proof-of-concept (PoC) project in its labs. They have two primary needs:
Scale and harden their PoC to support significantly more data flows generated when they ramp to more than 50,000 installations.

Refine their machine-learning cycles to verify and improve the dynamic models they use to control topology definition.
MJTelco will also use three separate operating environments - development/test, staging, and production - to meet the needs of running experiments, deploying new features, and serving production customers.
Business Requirements
Scale up their production environment with minimal cost, instantiating resources when and where needed in an unpredictable, distributed telecom user community.
Ensure security of their proprietary data to protect their leading-edge machine learning and analysis.
Provide reliable and timely access to data for analysis from distributed research workers
Maintain isolated environments that support rapid iteration of their machine-learning models without affecting their customers.
Technical Requirements
Ensure secure and efficient transport and storage of telemetry data
Rapidly scale instances to support between 10,000 and 100,000 data providers with multiple flows each.
Allow analysis and presentation against data tables tracking up to 2 years of data storing approximately 100m records/day
Support rapid iteration of monitoring infrastructure focused on awareness of data pipeline problems both in telemetry flows and in production learning cycles.
CEO Statement
Our business model relies on our patents, analytics and dynamic machine learning. Our inexpensive hardware is organized to be highly reliable, which gives us cost advantages. We need to quickly stabilize our large distributed data pipelines to meet our reliability and capacity commitments.
CTO Statement
Our public cloud services must operate as advertised. We need resources that scale and keep our data secure. We also need environments in which our data scientists can carefully study and quickly adapt our models. Because we rely on automation to process our data, we also need our development and test environments to work as we iterate.
CFO Statement
The project is too large for us to maintain the hardware and software required for the data and analysis. Also, we cannot afford to staff an operations team to monitor so many data feeds, so we will rely on automation and infrastructure. Google Cloud's machine learning will allow our quantitative researchers to work on our high-value problems instead of problems with our data pipelines.
MJTelco's Google Cloud Dataflow pipeline is now ready to start receiving data from the 50,000 installations. You want to allow Cloud Dataflow to scale its compute power up as required. Which Cloud Dataflow pipeline configuration setting should you update?

- A. The number of workers
- B. The zone
- C. The maximum number of workers
- D. The disk size per worker

**Answer: B**

**NEW QUESTION # 81**
You recently deployed several data processing jobs into your Cloud Composer 2 environment. You notice that some tasks are failing in Apache Airflow. On the monitoring dashboard, you see an increase in the total workers' memory usage, and there were worker pod evictions. You need to resolve these errors. What should you do?
Choose 2 answers

- A. Increase the maximum number of workers and reduce worker concurrency.
- B. Increase the directed acyclic graph (DAG) file parsing interval.
- C. Increase the Cloud Composer 2 environment size from medium to large.
- D. Increase the memory available to the Airflow triggerer.
- E. Increase the memory available to the Airflow workers.

**Answer: A,E**

Explanation:
To resolve issues related to increased memory usage and worker pod evictions in your Cloud Composer 2 environment, the following steps are recommended:
Increase Memory Available to Airflow Workers:
By increasing the memory allocated to Airflow workers, you can handle more memory-intensive tasks, reducing the likelihood of pod evictions due to memory limits.
Increase Maximum Number of Workers and Reduce Worker Concurrency:
Increasing the number of workers allows the workload to be distributed across more pods, preventing any single pod from becoming overwhelmed.
Reducing worker concurrency limits the number of tasks that each worker can handle simultaneously, thereby lowering the memory consumption per worker.
Steps to Implement:
Increase Worker Memory:
Modify the configuration settings in Cloud Composer to allocate more memory to Airflow workers. This can be done through the environment configuration settings.
Adjust Worker and Concurrency Settings:
Increase the maximum number of workers in the Cloud Composer environment settings.
Reduce the concurrency setting for Airflow workers to ensure that each worker handles fewer tasks at a time, thus consuming less memory per worker.
Reference:
Cloud Composer Worker Configuration
Scaling Airflow Workers

**NEW QUESTION # 82**
Your software uses a simple JSON format for all messages. These messages are published to Google Cloud Pub/Sub, then processed with Google Cloud Dataflow to create a real-time dashboard for the CFO.
During testing, you notice that some messages are missing in the dashboard. You check the logs, and all messages are being published to Cloud Pub/Sub successfully. What should you do next?

- A. Switch Cloud Dataflow to pull messages from Cloud Pub/Sub instead of Cloud Pub/Sub pushing messages to Cloud Dataflow.
- B. Use Google Stackdriver Monitoring on Cloud Pub/Sub to find the missing messages.
- C. Run a fixed dataset through the Cloud Dataflow pipeline and analyze the output.
- D. Check the dashboard application to see if it is not displaying correctly.

**Answer: C**

**NEW QUESTION # 83**

- A. Use session windows with a 15-minute gap duration.
- B. Use tumbling windows with a 15-mmute window and a fifteen-minute. withAllowedLateness operator.
- C. Use hopping windows with a 15-mmute window, and a thirty-minute period.
- D. You need to detect the average noise level from a sensor when data is received for a duration of more than 30 minutes, but the window ends when no data has been received for 15 minutes What should you do?
- E. Use session windows with a 30-mmute gap duration.

**Answer: B**

Explanation:
Session windows are dynamic windows that group elements based on the periods of activity. They are useful for streaming data that is irregularly distributed with respect to time. In this case, the noise level data from the sensors is only sent when it exceeds a certain threshold, and the duration of the noise events may vary. Therefore, session windows can capture the average noise level for each sensor during the periods of high noise, and end the window when there is no data for a specified gap duration. The gap duration should be 15 minutes, as the requirement is to end the window when no data has been received for 15 minutes. A 30-minute gap duration would be too long and may miss some noise events that are shorter than 30 minutes. Tumbling windows and hopping windows are fixed windows that group elements based on a fixed time interval. They are not suitable for this use case, as they may split or overlap the noise events from the sensors, and do not account for the periods of inactivity. Reference:
Windowing concepts
Session windows

Windowing in Dataflow

**NEW QUESTION # 84**
You work for a manufacturing plant that batches application log files together into a single log file once a day at 2:00 AM. You have written a Google Cloud Dataflow job to process that log file. You need to make sure the log file in processed once per day as inexpensively as possible. What should you do?

- A. Manually start the Cloud Dataflow job each morning when you get into the office.
- B. Change the processing job to use Google Cloud Dataproc instead.
- C. Create a cron job with Google App Engine Cron Service to run the Cloud Dataflow job.
- D. Configure the Cloud Dataflow job as a streaming job so that it processes the log data immediately.

**Answer: C**

**NEW QUESTION # 85**
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