




Quest

Engineer Data in Google Cloud

 6 hours  Advanced  27 Credits

Earn a **skill badge** by completing the **Engineer Data in Google Cloud** quest, where you will learn how to: 1. Build data pipelines using Cloud Dataprep by Trifacta, Pub/Sub, and Dataflow. 2. Use Cloud IoT Core to collect and manage MQTT-based devices. 3. Use Cloud Storage, Dataflow, and BigQuery to perform ETL. 4. Build a machine learning model using BigQuery ML. 5. Use Cloud Composer to copy data across multiple locations.

This quest is a great resource for understanding topics that will appear in the [Google Cloud Certified Professional Data Engineer Certification](#).

A skill badge is an exclusive digital badge issued by Google Cloud in recognition of your proficiency with Google Cloud products and services and tests your ability to apply your knowledge in an interactive hands-on environment. Complete the skill badge quest, and final assessment challenge lab, to receive a digital badge that you can share with your network.





Congrats! You completed this quest and earned a badge. Become a cloud expert and start another.

Lab

✓ [Creating a Data Transformation Pipeline with Cloud Dataprep](#)



Cloud Dataprep by Trifacta is an intelligent data service for visually exploring, cleaning, and preparing structured and unstructured data for analysis. In this lab you will explore the Cloud Dataprep UI to build a data transformation pipeline.

★★★★★ 1 hour intermediate 5 Credits  

Lab

✓ [Building an IoT Analytics Pipeline on Google Cloud](#)



This lab shows you how to connect and manage devices using Cloud IoT Core; ingest the stream of information using Cloud Pub/Sub; process the IoT data using Cloud Dataflow; use BigQuery to analyze the IoT data. Watch this short video, [Easily Build an IoT Analytics Pipeline](#).

★★★★★ 50 minutes intermediate 5 Credits  

Lab

✓ [ETL Processing on Google Cloud Using Dataflow and BigQuery](#)



In this lab you will build several Data Pipelines that will ingest data from a publicly available dataset into BigQuery.

★★★★★ 1 hour intermediate 5 Credits  

Lab

✓ [Predict Visitor Purchases with a Classification Model in BQML](#)



In this lab you will use a newly available ecommerce dataset to run some typical queries that businesses would want to know about their customers' purchasing habits.

★★★★★ 1 hour intermediate Free  

Lab

✓ [Cloud Composer: Copying BigQuery Tables Across Different Locations](#)

In this advanced lab you will create and run an Apache Airflow workflow in Cloud Composer that exports tables from a BigQuery dataset located in Cloud Storage buckets in the US to buckets in Europe, then import those tables to a BigQuery dataset in Europe.

★★★★★ 1 hour intermediate 5 Credits  

Lab

✓ [Engineer Data in Google Cloud: Challenge Lab](#)

This challenge lab tests your skills and knowledge from the labs in the Engineer Data in Google Cloud quest. You should be familiar with the content of labs before attempting this lab.

★★★★★ 1 hour Advanced 7 Credits 