

Data Engineering Solutions Lab

The Data Engineering Solutions Lab (DSL) is a 10-Day, focused, immersive learning experience that rapidly upskills your team on Google Cloud data engineering principles and best practices. The program combines five days of expert-led training sessions on key data engineering concepts (e.g., data warehousing, pipelines, data quality) with hands-on labs and a five-day collaborative capstone project. The capstone challenges participants to address a real-world use case using Google Cloud tools.

**DURATION**

2 weeks

**LEVEL**

300 - Advanced

**FORMAT**

Instructor-led

What you'll learn

- Design robust, scalable data warehousing and data pipeline architectures on Google Cloud using data engineering principles.
- Collaborate on a capstone project to solve real-world data engineering challenges.

Overview	10 days
Who this course is for	• Data Engineers, Solution Architects, and Developers looking to implement robust data engineering solutions.
Products	• Managed Service for Apache Spark • BigQuery Studio • Dataflow Prime • BigQuery • Dataflow
Prerequisites	• Modernizing Data Lakes and Data Warehouses with Google Cloud • Building Batch Data Pipelines on Google Cloud • Building Resilient Streaming Analytics Systems on Google Cloud

Module 01 Data Engineering Principles & Training

Topics	• Data warehousing • Data pipelines • Data quality
Objectives	• Master key data engineering concepts on Google Cloud.
Activities	• Expert-led training sessions • Hands-on labs

Module 02 Collaborative Capstone Project

Topics	• Real-world data engineering use cases
Objectives	• Solve a real-world problem using Google Cloud tools.
Activities	• Five-day collaborative project