



Professional Data Engineer

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- On-demand Course
- Hands-on Skill Badge
- Hands-on Lab
- Resource
- Live Virtual Workshop
- required to earn exam voucher

Professional Data Engineers enable data-driven decision making by collecting, transforming, and publishing data. A Data Engineer should be able to design, build, operationalize, secure, and monitor data processing systems with a particular emphasis on security and compliance; scalability and efficiency; reliability and fidelity; and flexibility and portability. A Data Engineer should also be able to leverage, deploy, and continuously train pre-existing machine learning models.

Recommended Candidate

- Has in-depth experience setting up cloud environments for an organization
- Has experience deploying services and solutions based on business requirements

Pre-Work

Professional Data Engineer

Certification Learning Path: Professional Data Engineer

Module 1

A Tour of Google Cloud Hands-on Labs

What type of data processing organization are you? (white paper)

Technical Workshop 1

Technical Workshop 2

Google Cloud Big Data and Machine Learning Fundamentals

Implement Load Balancing on Compute Engine

Modernizing Data Lakes & Data Warehouses with GCP

Build a modern, unified analytics data platform with Google Cloud (white paper)

Module 2

Technical Workshop 3

Technical Workshop 4

Building Batch Data Pipelines on Google Cloud

Module 3

Technical Workshop 5

Technical Workshop 6

Building Resilient Streaming Analytics Systems on GCP

Smart Analytics, Machine Learning, and AI on Google Cloud

Module 4

Technical Workshop 7

Technical Workshop 8

Serverless Data Processing with Dataflow: Foundations

Serverless Data Processing with Dataflow: Develop Pipelines

Module 5

Technical Workshop 9

Technical Workshop 10

Serverless Data Processing with Dataflow: Operations

Prepare Data for ML APIs on Google Cloud

Module 6

Technical Workshop 11

Technical Workshop 12

Optimizing BigQuery for Cost and Performance v1.5

Build a Data Warehouse with BigQuery

ETL Processing on Google Cloud Using Dataflow and BigQuery

Module 7

Technical Workshop 13

Exam Readiness Workshop

Engineer Data for Predictive Modeling with BigQuery ML

Preparing for the Google Cloud Professional Data Engineer Exam