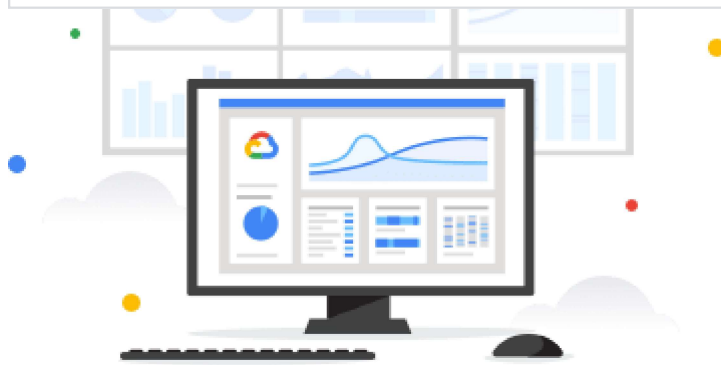Accelerate your learning and growth with Google Cloud Innovators. **Join now** (/innovators)

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Data engineering and smart analytics

The need for data analysis skills grew by 86% from 2013 to 2018. [1]
 (https://www.burning-glass.com/wp-content/uploads/hybrid_jobs_2019_final.pdf) Become
data-driven with Google Cloud. Leverage data and gain real-time insights that
improve your decision-making and accelerate innovation. Learn how to design and
build data processing systems.

Pick your path   ⌄

(#DATA-ENGINEER-LEARNING·

Data Engineer learning path

Data Engineers design solutions that ensure maximum flexibility and scalability, while meeting all required security controls.

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| Big Data & Machine Learning Fundamentals | Data Engineering on Google Cloud | Serverless Data Processing with Dataflow | SKILL BADGE Create and Manage Cloud Resources | SKILL BADGE Perform Foundational Data, ML, and AI Tasks in Google Cloud | SKILL BADGE Engineer Data with Google Cloud | Preparing for the Professional Data Engineer Examination |

COURSE

Big Data & Machine Learning Fundamentals

Get started with big data and machine learning. This course provides an introduction to Google Cloud capabilities and a deeper dive of the data processing capabilities.

Learn more (/training/course/data-ml-fundamentals)

COURSE

Data Engineering on Google Cloud Platform

Get an introduction to designing data processing systems, building end-to-end data pipelines, and analyzing data. You'll learn how to lift and shift Hadoop workloads using Dataproc, process batch and streaming data on Dataflow, manage data pipelines with Data Fusion and Cloud Composer, and more.

Learn more (/training/course/data-engineering)

● COURSE   ⋮

Serverless Data Processing with Dataflow

Advance your data processing applications by expanding your understanding of Dataflow.

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covering the most important lessons for operating a data application on Dataflow.

Learn more (/training/course/serverless-data-processing-with-dataflow)

● SKILL BADGE   ⋮

Create and Manage Cloud Resources

Gain essential skills you can apply to your first Google Cloud project. You'll learn how to write Cloud Shell commands, deploy your first virtual machine, and run applications on Kubernetes Engine or with load balancing. You'll have the opportunity to earn a Google Cloud skill badge upon completion.

Learn more   (https://cloudskillsboost.google/quests/120?
utm_source=gcp_training&utm_medium=website&utm_campaign=cgc-dataml)

● SKILL BADGE   ⋮

Perform Foundational Data, ML, and AI Tasks in Google Cloud

Get started with big data, machine learning, and artificial intelligence. Take your first steps with Google Cloud tools like BigQuery, Cloud Speech API, and AI Platform. You'll have the opportunity to earn a Google Cloud skill badge upon completion.

Learn more   (https://cloudskillsboost.google/quests/117?
utm_source=gcp_training&utm_medium=website&utm_campaign=cgc-dataml)

SKILL BADGE

Engineer Data with Google Cloud

⋮

From BigQuery, to Dataprep, to Cloud Composer & Tensorflow, this quest is composed of specific labs that will put your Google Cloud data engineering knowledge to the test.

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COURSE

Preparing for the Professional Data Engineer Examination

⋮

Start preparing for your Professional Data Engineer certification exam and further your ability to collect, transform, and publish data to help organizations make data-driven decisions as a Data Engineer with this course.

Learn more (/training/course/preparing-pro-data-engineer-exam)

Related information

What you'll learn

BigQuery, Dataflow, Data Fusion, Cloud Composer, BigQuery ML, IoT, TensorFlow, Dataproc, workload migration

Courses

4

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Labs

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Take the next step

CERTIFICATION   (/certification/data-engineer)

Professional Data Engineer Certification   →

Read more

Additional courses and practice

☁️

Engineer Data in Google Cloud

Prepare for certification with practice in BigQuery, Dataprep, Cloud Composer, Tensorflow, and more.

Get   (https://cloudskillsboost.google/quests/132?
started   utm_source=gcp_training&utm_medium=website&utm_campaign=cgc-dataml)

Scientific Data Processing

Use real-life, scientific data sets in tasks like earthquake data analysis and satellite image aggregation.

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Get   (https://cloudskillsboost.google/quests/28?
started   utm_source=gcp_training&utm_medium=website&utm_campaign=cgc-dataml)

Data Science on Google Cloud

Practice all aspects of ingestion, preparation, processing, querying, exploring, and visualizing data sets using Google Cloud tools and services.

Get   (https://cloudskillsboost.google/quests/43?
started   utm_source=gcp_training&utm_medium=website&utm_campaign=cgc-dataml)

Building Codeless Pipelines on Cloud Data Fusion

Get acquainted with the Cloud Data Fusion UI, try running batch and realtime pipelines, and practice using the built-in Wrangler plugin to transform your data.

Get   (https://cloudskillsboost.google/quests/130?
started   utm_source=gcp_training&utm_medium=website&utm_campaign=cgc-dataml)

Building Advanced Codeless Pipelines on Cloud Data Fusion

Dive deeper into advanced data integration features available in Cloud Data Fusion and learn best practices to build more robust, reusable, dynamic pipelines.

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started utm_source=gcp_training&utm_medium=website&utm_campaign=cgc-dataml)
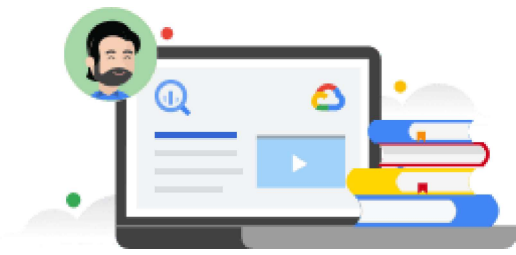
Industrial IoT on Google Cloud Platform

This course is a starting point for anyone interested in Industrial applications of the Internet of Things (IoT). The course covers IoT architecture, sensors and devices, connecting to Google Cloud, ingesting, processing, and analyzing IoT data.

Register for course (/training/course/iiot-google-cloud-platform)

Cloud OnBoard: Unleash Your Data Potential

With the right data skills, the sky's the limit. Expand yours at Cloud OnBoard: Unleash
Your Data Potential, a free instructor-led training event. Explore the fundamentals of

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Regi   (https://cloudonair.withgoogle.com/events/cloud-onboard-data-fundamentals?
ster   utm_source=google_owned_website&utm_medium=et&utm_campaign=-
now   &utm_content=cgc-training-cob-data-fundamentals&utm_term=-)
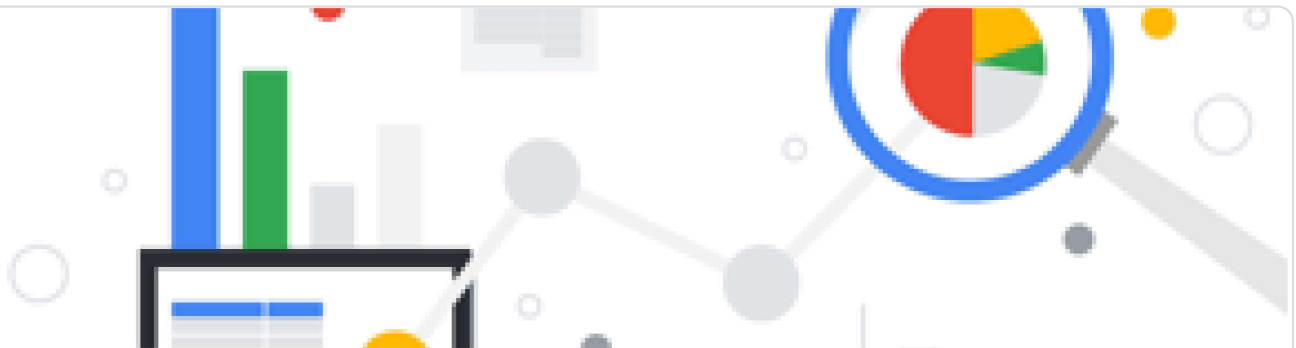
Digital events and webinars

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WEBINAR

Data science for Public Health: Working with public COVID-19
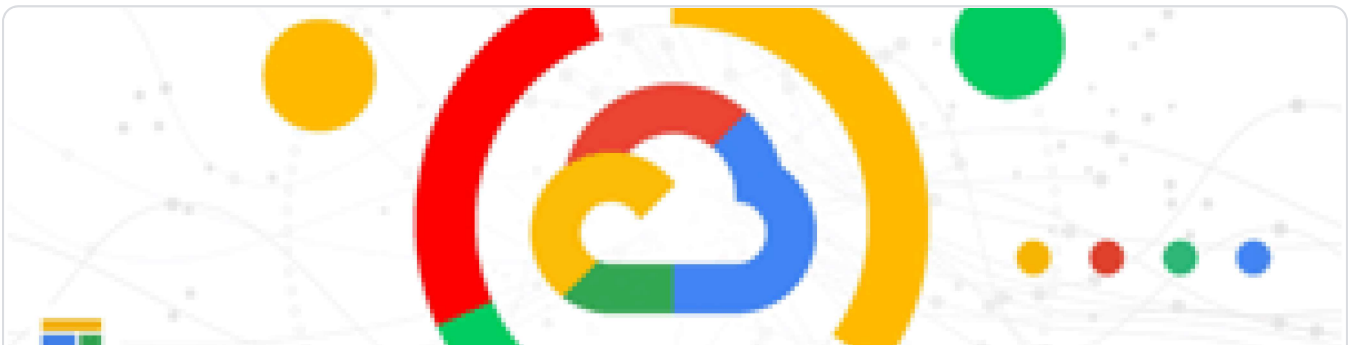datasets **Watch on-demand**
 (https://cloudonair.withgoogle.com/events/health-datasets?
utm_source=google&utm_medium=website&utm_content=cgc-training-data-
science-public-health)

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Solve this month's BigQuery data challenge

Take the challenge (https://inthecloud.withgoogle.com/bigquery-weekly/register.html?utm_source=google&utm_medium=website&utm_content=cgc-training-bq-data-challenge)

10 top tips: Unleash your BigQuery superpowers

Read blog (/blog/products/data-analytics/top-bigquery-superpowers-for-cloud-data-analytics)

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Start making business decisions backed by data with Looker

Go to Looker training (https://training.looker.com/)

Data Analytics

Explore Google Cloud documentation for Data Analytics

Go to docs (/docs#section-9)

Databases

Explore Google Cloud documentation for Databases

Go to docs (/docs#section-10)

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Ready to get started?

Enroll today and claim your exclusive Google Cloud training discounts.

Start now (https://inthecloud.withgoogle.com/training-discount/register.html?
utm_source=google&utm_medium=website&utm_content=cgc-training-sa-promo3)

Take these courses in a classroom setting
Go to schedule (/training/courses)

Request a private session for your organization
Request now (https://services.google.com/fb/forms/trainingcontactus/)

Find these courses on Pluralsight
Visit Google Cloud on Pluralsight (https://www.pluralsight.com/authors/google-cloud/)

Find these courses on Coursera
Visit Google Cloud on Coursera (https://www.coursera.org/googlecloud/)

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