

Google Cloud Computing Foundations: Data, ML, and AI in Google Cloud

The Google Cloud Computing Foundations courses are for individuals with little to no background or experience in cloud computing. They provide a detailed overview of concepts covering cloud basics, big data, and machine learning, and where and how Google Cloud fits in.

By the end of the course, learners will be able to articulate concepts around cloud computing, big data, and machine learning, and demonstrate some hands-on skills.

This course is part of a series of courses called Google Cloud Computing Foundations. The courses should be completed in the following order:

1. [Google Cloud Computing Foundations: Cloud Computing Fundamentals](#)
2. [Google Cloud Computing Foundations: Infrastructure in Google Cloud](#)
3. [Google Cloud Computing Foundations: Networking and Security in Google Cloud](#)
4. [Google Cloud Computing Foundations: Data, ML, and AI in Google Cloud](#)

This final course in the series reviews managed big data services, machine learning and its value, and how to demonstrate your skillset in Google Cloud further by earning Skill Badges.

Congratulations! You finished this course.



You've earned a badge. Share this badge on your profile page.

You Have the Data, but What Are You Doing with It?

This module explores a variety of managed big data services in the cloud.

DOCUMENT

[Welcome to the course!](#)

VIDEO

[Module 9 Introduction](#)

2 minutes

VIDEO

[Intro to Big Data Managed Services in the Cloud](#)

2 minutes

VIDEO

[Leverage Big Data Operations with Cloud Dataproc](#)

8 minutes

VIDEO

[Lab Intro: Dataproc - Qwik Start – Console](#)

1 minute

HANDS-ON LAB

[Dataproc: Qwik Start – Console](#)

30 minutes

VIDEO

[Lab Intro: Dataproc - Qwik Start - Command Line](#)

1 minute

HANDS-ON LAB Dataproc: Qwik Start - Command Line	30 minutes
VIDEO Build Extract, Transform, and Load Pipelines using Cloud Dataflow	7 minutes
VIDEO Lab Intro: Dataflow - Qwik Start – Templates	1 minute
HANDS-ON LAB Dataflow: Qwik Start – Templates	30 minutes
VIDEO Lab Intro: Dataflow - Qwik Start – Python	1 minute
HANDS-ON LAB Dataflow: Qwik Start – Python	30 minutes
VIDEO BigQuery, Google's Enterprise Data Warehouse	8 minutes
HANDS-ON LAB Dataprep: Qwik Start	1 hour
QUIZ Quiz: Let Google Keep an Eye on Things	
VIDEO Module 9 Summary	1 minute

Let Machines Do the Work

This module explains what machine learning is, the terminology used, and its value proposition.

VIDEO Module 10 Introduction	2 minutes
VIDEO Introduction to Machine Learning	12 minutes
VIDEO Machine Learning and Google Cloud	4 minutes
VIDEO Qwik, Draw	1 minute
VIDEO Qwik, Draw screencast	4 minutes
VIDEO Building Bespoke Machine Learning Models with AI Platform	15 minutes
VIDEO Lab Intro: AI Platform - Qwik Start	1 minute

HANDS-ON LAB AI Platform: Qwik Start	1 hour
VIDEO Cloud AutoML	4 minutes
VIDEO Google's Pre-trained Machine Learning APIs	5 minutes
VIDEO Lab Intro: ML API Qwik Start Labs	1 minute
HANDS-ON LAB Cloud Natural Language API: Qwik Start	41 minutes
HANDS-ON LAB Google Cloud Speech API: Qwik Start	16 minutes
HANDS-ON LAB Video Intelligence: Qwik Start	30 minutes
HANDS-ON LAB Reinforcement Learning: Qwik Start	45 minutes
QUIZ Quiz: Let Machines Do the Work	
VIDEO Module 10 Summary	3 minutes

Course Summary

This module provides a course summary and the opportunity to earn another Google Cloud Skill Badge.

DOCUMENT
[Demonstrate your capabilities further!](#)

VIDEO
[Course Summary](#) **1 minute**