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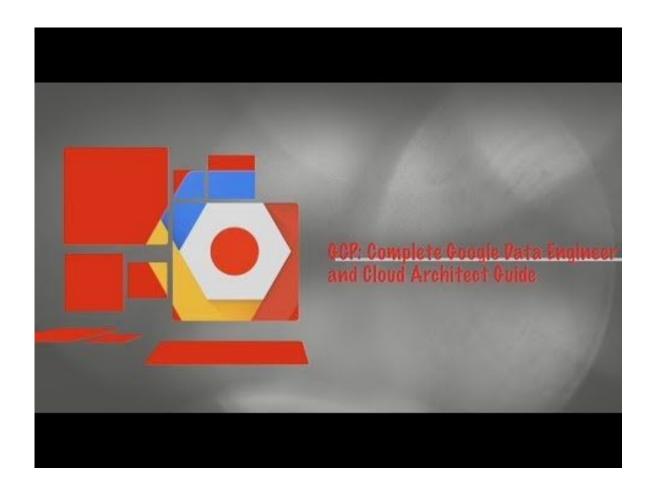
Learning Style: On Demand

**Provider: Google** 

**Difficulty: Intermediate** 

**Course Duration: 23 Hours** 

# GCP: Complete Google Data Engineer and Cloud Architect Guide



#### **About the Course:**

Even though Google Cloud Platform is not the most famous cloud service in the present day, it is for sure the best platform that offers support for high-end machine learning applications. All this is due to TensorFlow, which is a deep learning

technology by Google.

A Cloud and Data Engineer Professional earn \$88,000 on average annually.

### **Course Objective:**

At the end of this course, students shall will familiar with:

- Computation and Storage AppEngine, Compute Engine, and Kubernetes
- Big Data and Managed Hadoop Dataproc, Dataflow, BigTable, BigQuery, and Pub/Sub
- TensorFlow complete information about the neural networks, including what they are, how they work, what are the components, how should we train them, and how is it connected to deep learning
- DevOps Cloud Deployment, Cloud Monitoring, and StackDriver logging
- Cloud Security Identity and Access Management, Identity-Aware proxying, OAuth, API Keys, and service accounts
- Networking Shared and Traditional Virtual Private Clouds, the HTTP Layer, Cloud, and CDN Interconnect, Network Load Balancing, and transport layer
- Hadoop Foundations Open source platforms including Hadoop, Pig, Hive, HBase, and Spark

#### Audience:

This course targets the following audience:

- Startup owners or IT companies who want to use the Google Cloud Platform
- Individuals interested in learning about cloud architecture, networking, load balancing, and other features of Google Cloud Platform
- Candidates looking for big data solutions and serverless analytics with the Google Cloud Platform
- People who want to build and deploy TensorFlow

#### **Prerequisite:**

Candidates must have a basic understanding of IT and some experience with Hadoop.

#### **Course Outline:**

- You, This Course and Us
- Introduction
- Compute Choices
- Storage
- Cloud SQL, Cloud Spanner ~ OLTP ~ RDBMS
- The Hadoop Ecosystem
- BigTable ~ HBase = Columnar Store
- Datastore ~ Document Database

- BigQuery ~ Hive ~ OLAP
- Dataflow ~ Apache Beam
- Dataproc ~ Managed Hadoop
- Pub/Sub for Streaming
- Datalab ~ Jupyter
- TensorFlow and Machine Learning
- Regression in TensorFlow
- Vision, Translate, NLP and Speech: Trained ML APIs
- Networking
- Ops and Security

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