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# **Google Cloud Fundamentals: Core Infrastructure**

Course#: CA-Fund
Duration:1 Day

Price:0.00

# **Course Description**

This one-day instructor-led class provides an overview of Google Cloud Platform products and services. Through a combination of presentations, demos, and hands-on labs, participants learn the value of Google Cloud Platform and how to incorporate cloud-based solutions into business strategies.

## **Objectives**

This course teaches participants the following skills:

Identify the purpose and value of Google Cloud Platform products and services Interact with Google Cloud Platform services

Describe ways in which customers have used Google Cloud Platform

Choose among and use application deployment environments on Google Cloud Platform: Google App Engine, Google Kubernetes Engine, and Google Compute Engine

Choose among and use Google Cloud Platform storage options: Google Cloud Storage, Google Cloud SQL, Google Cloud Bigtable, and Google Cloud Datastore

Make basic use of BigQuery, Googles managed data warehouse for analytics

Make basic use of Cloud Deployment Manager, Googles tool for creating and managing cloud resources through templates

Make basic use of Google Stackdriver, Googles monitoring, logging, and diagnostics system

### **Audience**

This class is intended for the following:

Individuals planning to deploy applications and create application environments on Google Cloud Platform.

Developers, systems operations professionals, and solution architects getting started with Google Cloud Platform.

Executives and business decision makers evaluating the potential of Google Cloud Platform to address their business needs.

## **Prerequisites**

Familiarity with the Linux command line, web servers, and text editors.

#### Content

The course includes presentations, demonstrations, and hands-on labs.

Module 1: Introducing Google Cloud Platform

Explain the advantages of Google Cloud Platform.

Define the components of Googles network infrastructure.

Understand the difference between Infrastructure-as-a-Service (laaS) and Platform-as-a-Service (PaaS).

Module 2: Getting Started with Google Cloud Platform

Identify the purpose of projects on Google Cloud Platform.

Understand the purpose of and use cases for Identity and Access Management.

List the methods of interacting with Google Cloud Platform.

Lab: Getting Started with Google Cloud Platform.

#### Module 3: Virtual Machines and Networks in the Cloud

Identify the purpose of and use cases for Google Compute Engine.

Understand the various Google Cloud Platform networking and operational tools and services.

Lab: Compute Engine

Module 4: Storage in the Cloud

Understand the purpose of and use cases for: Google Cloud Storage, Google Cloud SQL, and Google Cloud Bigtable.

Learn how to choose between the various storage options on Google Cloud Platform.

Lab: Cloud Storage and Cloud SQL

Module 5: Containers in the Cloud

Define the concept of a container and identify uses for containers.

Identify the purpose of and use cases for Google Container Engine and Kubernetes.

Lab: Kubernetes Engine

Module 6: Applications in the Cloud

Understand the purpose of and use cases for Google App Engine.

Contrast the App Engine Standard environment with the App Engine Flexible environment.

Understand the purpose of and use cases for Google Cloud Endpoints.

Lab: App Engine

Module 7: Developing, Deploying, and Monitoring in the Cloud

Understand options for software developers to host their source code.

Understand the purpose of template-based creation and management of resources.

Understand the purpose of integrated monitoring, alerting, and debugging.

Lab: Deployment Manager and Stackdriver

Module 8: Big Data and Machine Learning in the Cloud

Understand the purpose of and use cases for the products and services in the Google Cloud big data and machine learning platforms.

Lab: BigQuery