



GOOGLE CLOUD PLATFORM (GCP)

COMPUTE ENGINE . CLOUD RUN
CLOUD STORAGE . BIGQUERY
IAM . VPC . OPERATIONS SUITE

DURATION	LEVEL	MODULES	MODE
50 Hours	Beginner to Advanced	8	Classroom • Online • Hybrid

01 COURSE OVERVIEW

A Google Cloud course covering compute, storage, data and container services with an emphasis on managed platforms. The course follows the Google approach of preferring managed services: Compute Engine and VPC first for grounding, then Cloud Run, GKE, Cloud SQL, BigQuery and Pub/Sub, with IAM and the operations suite throughout.

Learners deploy a containerised application on Cloud Run and GKE and query a public BigQuery dataset.

WHO IT IS FOR

- Cloud engineers and administrators
- Developers deploying containers
- Data engineers using BigQuery
- Graduates preparing for Associate Cloud Engineer

PREREQUISITES

Basic Linux, networking and one programming language.

02 LEARNING OUTCOMES

01 Structure projects, folders and billing accounts.

03 Run workloads on Compute Engine and Cloud Run.

05 Store and serve data from Cloud Storage and Cloud SQL.

07 Query datasets in BigQuery and monitor with the operations suite.

02 Grant access with IAM roles and service accounts.

04 Design VPCs, firewall rules and load balancing.

06 Deploy and scale containers on GKE.

03 MODULE STRUCTURE

8 MODULES

01 GCP FOUNDATIONS

Resource hierarchy

Regions and zones

Cloud Shell and gcloud

Projects and billing

Pricing calculator

APIs and quotas

02 IAM AND SECURITY

Predefined and custom roles

Workload identity basics

Secret Manager

Service accounts

Organisation policy

LAB

SERVICE ACCOUNT ACCESS

03 COMPUTE

Compute Engine machine types

Instance groups

Startup scripts

LAB

MANAGED INSTANCE GROUP

Images and snapshots

Preemptible VMs

Autoscaling

04 NETWORKING

VPC and subnets

Cloud NAT

Load balancing types

LAB

GLOBAL LOAD BALANCER

Firewall rules

Cloud DNS

Cloud CDN

05 STORAGE AND DATABASES

Cloud Storage classes

Signed URLs

Firestore

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CLOUD SQL APPLICATION

Lifecycle

Cloud SQL

Memorystore basics

06 CONTAINERS AND SERVERLESS

Artifact Registry

Cloud Run

Workloads and services

LAB

CLOUD RUN AND GKE DEPLOYMENT

Cloud Build

GKE clusters

Cloud Functions

07 DATA AND MESSAGING

BigQuery datasets and queries

Pub/Sub topics

Looker Studio connection

Partitioning

Dataflow overview

LAB

BIGQUERY ANALYSIS

08 OPERATIONS AND COST

Cloud Logging

Alerting policies

Committed use discounts

Cloud Monitoring

Error Reporting

Budgets

PROJECT

CONTAINERISED APP ON GCP WITH MONITORING

04 ASSESSMENT & CERTIFICATION

Module assignments and labs	25%
Mini projects	20%
Internal assessments	15%
Final project and review	40%

CERTIFICATION

Learners who complete all modules, submit the final project and clear the review receive a course completion certificate from Kaizen Infinities Private Limited. Project work is documented for the learner's portfolio, and interview preparation is included in the closing sessions.

05 CAREER OUTCOMES

ROLES THIS PROGRAMME PREPARES FOR

GCP CLOUD ENGINEER

CLOUD ADMINISTRATOR

DEVOPS ENGINEER

DATA PLATFORM ENGINEER

SITE RELIABILITY ENGINEER

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