GOOGLE CLOUD PLATFORM

COURSE CURRICULUM

ENROLL NOW

CALL US
+91 630 171 9270

GCP – Google Cloud Platform Course Curriculum

Certification Goals:

Designed to clear:

- Associate Cloud Engineer
- Professional Cloud Architect
- Cloud Digital Leader

Reference Links:

- https://cloud.google.com/certification/cloud-engineer
- https://cloud.google.com/certification/cloud-architect
- https://cloud.google.com/certification/cloud-digital-leader

Trainer Profile

- 15+ years of IT experience
- Trained 500+ professionals in GCP Architect roles
- Delivered corporate training to Wipro, Capgemini, and several startups

Core Skills:

- GCP, AWS, Jenkins, Git, Terraform
- RedHat Linux, Windows, Solaris
- Networking, Storage, Monitoring

Certifications:

- GCP Professional Cloud Architect
- GCP Cloud Digital Leader
- AWS Associate Solution Architect
- RedHat Certified OpenStack Administrator
- RHCSA & RHCE (v7)

Day 1: Why Cloud? Why GCP?

- Traditional IT architecture (Servers, Storage, Network)
- What is Cloud Computing?
- Cloud vs Traditional IT
- Benefits & architecture of Cloud
- Deployment models: Public, Private, Hybrid
- Service models: IaaS, PaaS, SaaS
- Why GCP? Key features
- GCP Global Infrastructure
- Gartner Magic Quadrant for GCP

Day 2: GCP Basics

- Overview of cloud vendors
- GCP Regions and Zones
- GCP Interfaces and Shell
- GCP Console Walkthrough (LAB)
- Projects, Folders, Organizations
- Billing Setup & Alerts (LAB)

Days 3–4: Compute Engine

- VM Overview & Lifecycle
- Linux/Windows VM Creation (LAB)
- Machine Types & Preemptible VMs
- Persistent Disks, Snapshots (LAB)
- Firewall Rules & Pricing
- GCloud Commands (LAB)
- Practice Questions

Day 5: Cloud Storage (GCS)

- Bucket Creation & Configuration (LAB)
- Storage Classes, Lifecycle Rules
- Versioning & Pricing
- GCloud Commands (LAB)
- Practice Questions

Day 6: Load Balancing & Auto Scaling

- Load Balancer Types (HTTP, SSL, TCP, Internal)
- Autoscaling Concepts
- Create Load Balancer with Auto Scaling (LAB)

Days 7–8: Virtual Private Cloud (VPC)

- VPC Types: Default, Auto, Custom
- Routes, IPs, Firewall, NAT Gateway
- Shared VPC & VPC Peering
- Subnet & Firewall Setup (LAB)
- NAT Configuration (LAB)
- Practice Questions

Day 9: Cloud SQL

- Introduction to SQL Engines
- HA Setup & Backups
- Cloud SQL Instance Setup (LAB)

Day 9: Cloud Spanner
- Globally Distributed RDBMS
- Architecture & Features
- Create & Query Spanner Instance (LAB)
- Practice Questions

Day 10: Big Data Services
- Cloud Firestore / Datastore
- Cloud Dataproc (Hadoop/Spark)
- Memorystore (Redis) Setup
- BigTable & BigQuery (LAB)
- Cloud Dataflow & Pub/Sub

Day 11: Serverless Compute Services
- App Engine (Standard vs Flexible) (LAB)
- Cloud Functions: Event-driven logic (LAB)
- Cloud Run: Container Deployment (LAB)

Day 12: Management Tools
- Cloud Monitoring, Logging
- Metrics, Logs, Error Reporting (LAB)
- Deployment Manager: IAC Basics (LAB)

Days 13–14: Google Kubernetes Engine (GKE)
- Docker & Kubernetes Basics
- Pods, Services, Deployments
- YAML & Kustomize
- WordPress Deployment (LAB)
- Guestbook App Setup (LAB)
- Scaling, Rollbacks, Upgrades (LAB)
- Practice Questions

Wrap-Up Session
- Project Discussion
- Resume Preparation
- Certification Mock Q&A:
- Associate Cloud Engineer
- Professional Cloud Architect

Thank you

Thank You for Going Through GCP Curriculum
We hope this guide has provided a clear and structured learning path to strengthen your skills in GCP.

📌 **NEXT STEPS**

- Start practicing with real-world use cases and hands-on exercises
- Build personal or client-based projects for your portfolio
- Keep exploring updates and best practices in the industry
- Join discussions and stay connected with the community

📞 Need Help or Guidance?

Feel free to contact our course support team:

Course Coordinator

GS Infotekh

📧 contact@gsinfotekh.com

🌐 www.gsinfotekh.com

📞 +91 630 171 9270