GCP Associate Cloud Engineer

Deploy, operate and secure workloads on Google Cloud, aligned to the Associate Cloud Engineer exam.

DURATION	FORMAT	LEVEL	LABS
45 hours	Onsite, online or hybrid	Intermediate	Cloud sandbox included

About this programme

Prepares engineers to set up Google Cloud projects and billing, plan and deploy compute, storage and network resources, keep solutions running with Cloud Monitoring and Logging, and manage IAM and service accounts, in line with the Associate Cloud Engineer exam.

Who it is for: Cloud engineers, system administrators and DevOps engineers

What your team will be able to do

- Set up projects, billing, alerts, APIs and the Google Cloud CLI
- Choose and configure compute, storage and network resources for a workload
- Deploy to Compute Engine, GKE, App Engine, Cloud Run and Cloud Run functions
- Operate solutions with Cloud Monitoring and Cloud Logging
- Manage IAM policies, custom roles, service accounts and audit logs

Before you start

- Linux command line
- Networking basics: IP addressing, DNS and firewalls

Course outline

1. Set up a cloud solution environment

- Creating projects and managing billing and budget alerts
- Installing and configuring the Google Cloud CLI
- Enabling APIs in projects

2. Plan and configure a cloud solution

- Estimating product usage and costs
- Planning compute: Compute Engine, GKE, App Engine, Cloud Run and Cloud Run functions
- Choosing storage: Cloud Storage, Cloud SQL, BigQuery and Bigtable
- Planning networks: VPCs, load balancing and Cloud DNS

3. Deploy and implement a cloud solution

- Deploying compute resources across Google Cloud's compute options
- Deploying data solutions and networking resources
- Using Cloud Marketplace
- Deploying application infrastructure as code

4. Ensure successful operation

- Managing Compute Engine, GKE, App Engine and Cloud Run resources
- Managing storage, databases and network resources
- Monitoring and logging with Cloud Monitoring and Cloud Logging

5. Configure access and security

- Viewing and creating IAM policies
- Defining custom roles
- Managing service accounts
- Reviewing audit logs

Sample schedule

6 days onsite, or 12 half-day sessions online. We fit days and session lengths to your team's calendar.

Day 1	8 h	Set up a cloud solution environment; Plan and configure a cloud solution
Day 2	8 h	Plan and configure a cloud solution (continued)
Day 3	8 h	Plan and configure a cloud solution (continued); Deploy and implement a cloud solution
Day 4	8 h	Deploy and implement a cloud solution (continued); Ensure successful operation
Day 5	8 h	Ensure successful operation (continued); Configure access and security
Day 6	5 h	Configure access and security (continued)

Assessment and certification

How learning is checked

- A short knowledge check on day one and again at the end, so you can see each person's progress
- Graded hands-on labs in every module, reviewed by the trainer
- A final exercise that applies the programme to a problem like your team's own
- A timed practice exam in the format of the real one, with a review of every answer

Certificate and exams

- Participants who complete the programme receive a Cognitive Networks AI certificate of completion.
- Prepares your team for the Google Cloud Associate Cloud Engineer exam. Exam vouchers are not included: each participant books the exam with Google.

Formats and cohort size

- Onsite: At your office or a venue you choose, in full days.
- Online, live: Instructor-led over video, usually in half-day sessions so people can keep up with work.
- Hybrid: Some days in a room together, the rest online. Useful when a team works across cities.

Cohort size: 15 to 25 people per trainer. Larger teams run as parallel cohorts on the same outline, so everyone learns the same thing.

Pricing: We quote per cohort, based on duration, format and number of cohorts. There is no per-seat price list: tell us your team and we send a proposal within one business day.

Bring this programme to your team

Request a proposal at cognitivenetworks.ai/contact?programme=gcp-cloud-engineer

reachus@cognitivenetworks.ai · Bangalore +91 72043 05303 · Dallas +1 (303) 827-7415

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