

CLOUD

INTERMEDIATE

5 DAYS

Google Associate Cloud Engineer

Build a strong foundation in Google Cloud Platform by understanding its core services, infrastructure, and security model. Learn how to deploy, monitor, secure, and optimize applications on GCP while applying best practices for performance, access control, and operational efficiency.

Why Google Cloud Engineer?

Practical skills

Demonstrated Expertise: Hiring individuals with the Google Certified Associate Cloud Engineer certification showcases that your business employs professionals with in-depth knowledge and expertise in Google Cloud Platform (GCP).

Enterprise outcomes

Enhanced Security Measures: Having a certified professional on your team ensures that your business can implement robust security measures, protect sensitive data, and maintain compliance with industry standards and regulations.

Operational readiness

Efficient Cloud Management: A certified Associate Cloud Engineer possesses the skills to deploy applications, manage infrastructure, and optimise resource utilisation on GCP.

What you'll be able to do

- ✓ Gain a comprehensive understanding of the core concepts, services, and infrastructure of Google Cloud Platform (GCP).
- ✓ Learn how to deploy applications on GCP, including setting up virtual machines, containers, and serverless environments.
- ✓ Learn about resource monitoring, access control, and resource optimisation techniques.
- ✓ Understand how to implement security best practices and manage identity and access control on GCP.
- ✓ Gain knowledge of monitoring and logging systems on GCP.
- ✓ Learn how to analyse performance metrics, identify bottlenecks, and implement optimisation strategies.

Who this is for

- Cloud Engineers System Administrators
- IT Professionals transitioning to Cloud Roles Developers

Curriculum

01 Setting up a cloud solution environment

- Setting up cloud projects and accounts.
- Managing billing configuration.
- Installing and configuring the command line interface (CLI), specifically the Cloud SDK (e.g., setting the default project).

02 Planning and Configuring a cloud solution

- Planning and estimating Google Cloud product use using the Pricing Calculator.
- Planning and configuring compute resources.
- Planning and configuring data storage options.
- Planning and configuring network resources.

03 Deploying and Implementing a cloud solution

- Deploying and implementing Compute Engine resources.
- Deploying and implementing Google Kubernetes Engine resources.
- Deploying and implementing Cloud Run and Cloud Functions resources.
- Deploying and implementing data solutions.
- **Hands-on:** Deploying and implementing networking resources.; Deploying a solution using Cloud Marketplace.; Implementing resources via infrastructure as code.

04 Ensuring the successful operation of a cloud solution

- Managing Compute Engine resources.
- Managing Google Kubernetes Engine resources.
- Managing Cloud Run resources.
- Managing storage and database solutions.
- **Hands-on:** Managing networking resources.; Monitoring and logging; Configuring Access and Security