



This course is targeted at efficiently teaching the skills required by the certification namely deploying applications, monitoring operations, and managing enterprise solutions. It also helps students demonstrate those skills through certification. The certification requires candidates be able to use both the GCP console and the command-line to perform many common platform-based tasks, but this course does not require students to already have experience with either, going in.

This course will prepare you to:

Set-up and configure Google Cloud accounts using best practices.

Use GCP services like Cloud Storage, Compute Engine, and Kubernetes Engine in your everyday work.

Pass the GCP Associate Cloud Engineer certification exam.

No coding experience is required and code used for labs is provided.

Duration - 32 Hours

Module 1 Introduction

- Google Cloud Platform Certifications
- Google Cloud Platform - Other Certifications
- Associate Cloud Engineer Certification
- Google Cloud Platform Introduction
- Google Cloud Platform Introduction
- Subscribing for \$300 Free Trial
- Google Cloud Platform Interface
- GCP : Cloud Console
- GCP : Cloud SDK
- GCP : Cloud Shell
- Cloud APIs

Module 2 Google Cloud Platform overview

- Google Cloud Platform Introduction
- Google Cloud Platform Introduction
- Subscribing for \$300 Free Trial
- Google Cloud Platform Interface

GCP : Cloud Console
GCP : Cloud SDK
GCP : Cloud Shell

Module 3 Setting up a cloud solution environment

Setting up cloud projects and accounts.
Managing billing configuration
Installing and configuring the command line interface (CLI) - Cloud
gcloud Commands Practice and Setup

Module -4 Planning and configuring a cloud solution

Section Background : Planning and configuring a cloud solution
Planning and estimating GCP product use using the Pricing Calculat
Planning and configuring compute resources.
Planning and configuring data storage options.
Planning and configuring network resources
Planning and configuring
network resources : Load Balancer
Planning and Configuration Assignments

Module 5 Deploying and implementing a cloud solution

Deploying and implementing Compute Engine resource : Pricing
Deploying and implementing Compute Engine Other Load Balancer's
Deploying and implementing Kubernetes Engine resource
Deploying and implementing
Cloud Functions resources.
Cloud Function
Deploying and implementing
Data Solutions- Introduction
Dep. & Imp. Data Sol : Cloud DataStore Demo
Cloud Datastore
Dep. & Imp. Data Sol : Cloud DataStudio and Datalab - Bonus
Cloud Pubsub, Cloud DataStore, Cloud BigQuery
Deploying and implementing networking resources.
Cloud Network VPC Subnetworks
Subnetworks
Cloud Network VPC : IP Address
Cloud Network VPC : Routes and Firewall Rules
Cloud Network VPC : Other Concepts
Cloud Networks - VPC , Subnetworks, Routes, Firewalls
Cloud Network - VPN & Interconnect
Cloud Network - VPN
Cloud Network -Cloud Router
Cloud Network -Cloud
Interconnect - Bonus Hybrid Networks

Cloud Network - DNS
Cloud Network - DNS Demo
Cloud DNS
Cloud Network - Cloud CDN
Cloud CDN
Deploying a Solution using Cloud Launcher.
Deploying an Application using Deployment Manager.

Module 6 Ensuring successful operation of a cloud

Managing Kubernetes Engine resources.
Managing Kubernetes Engine
Managing Cloud Function
Managing data solutions - Cloud SQL
Managing data solutions - Cloud Spanner
Managing data solutions - Cloud Storage
Monitoring and logging Introduction
Monitoring and logging

Module 7 Configuring access and security

Configuring access and Security - Background
Managing Identity and Access Management (IAM)
Managing service accounts.
Viewing audit logs for project and managed services.
Configuring Access and Security