



Google Cloud Certified – Associate Cloud Engineer

Course Overview

This five-day instructor-led class is designed to help IT professionals prepare for the Google Associate Cloud Engineer certification exam.

This Track Includes:

1. Google Cloud Platform Fundamentals: Core Infrastructure – 1 Day
2. Architecting with Google Compute Engine – 3 Days
3. Getting Started with Google Kubernetes Engine – 1 Day

1. Google Cloud Platform Fundamentals: Core Infrastructure

One-day instructor-led class provides an overview of Google Cloud Platform products and services. Through a combination of presentations, demos, and hands-on labs, participants learn the value of Google Cloud Platform and how to incorporate cloud-based solutions into business strategies.

2. Architecting with Google Compute Engine

This three-day instructor-led class introduces participants to the comprehensive and flexible infrastructure and platform services provided by Google Cloud Platform, with a focus on Compute Engine. Through a combination of presentations, demos, and hands-on labs, participants explore and deploy solution elements, including infrastructure components such as networks, systems, and application services. This course also covers deploying practical solutions including securely interconnecting networks, customer supplied encryption keys, security and access management, quotas and billing, and resource monitoring.

3. Getting Started with Google Kubernetes Engine

In this one-day instructor-led class, participants learn to containerize workloads in Docker containers, deploy them to Kubernetes clusters provided by Google Kubernetes Engine, and scale those workloads to handle increased traffic. You also learn how to continuously deploy new code in a Kubernetes cluster to provide application updates.

Course Objectives

1. Google Cloud Platform Fundamentals: Core Infrastructure

- Identify the purpose and value of Google Cloud Platform products and services
- Interact with Google Cloud Platform services
- Describe ways in which customers have used Google Cloud Platform
- Choose among and use application deployment environments on Google Cloud Platform: Google App Engine, Google Kubernetes Engine, and Google Compute Engine
- Choose among and use Google Cloud Platform storage options: Google Cloud Storage, Google Cloud SQL, Google Cloud Bigtable, and Google Cloud Datastore
- Make basic use of BigQuery, Google's managed data warehouse for analytics
- Make basic use of Cloud Deployment Manager, Google's tool for creating and managing cloud resources through templates
- Make basic use of Google Stackdriver, Google's monitoring, logging, and diagnostics system

2. Architecting with Google Compute Engine

- Configure VPC networks and virtual machines
- Administer Identity and Access Management for resources
- Implement data storage services in GCP
- Manage and examine billing of GCP resources
- Monitor resources using Stackdriver services
- Connect your infrastructure to GCP

- Configure load balancers and autoscaling for VM instances
- Automate the deployment of GCP Infrastructure services
- Leverage managed services in GCP

3. Getting Started with Google Kubernetes Engine

- Understand how software containers work
- Understand the architecture of Kubernetes
- Understand the architecture of Google Cloud
- Understand how pod networking works in Google Kubernetes Engine
- Create and manage Kubernetes Engine clusters using the Google Cloud Console and gcloud/kubectl commands

Target Audience

- Developers, systems operations professionals, and solution architects

Prerequisites

- Systems Operations experience, including deploying and managing applications, either on-premises or in a public cloud environment
- Familiarity with the Linux command line, web servers, and text editors.

Certifications

Attending this course meets the training requirement to achieve the following certification:

- Google Cloud Certified – Associate Cloud Engineer

Course Modules

1. Google Cloud Platform Fundamentals – Core Infrastructure

- Module 1: Introducing Google Cloud Platform
- Module 2: Getting Started with Google Cloud Platform
- Module 3: Virtual Machines and Networks in the Cloud
- Module 4: Storage in the Cloud
- Module 5: Containers in the Cloud
- Module 6: Applications in the Cloud
- Module 7: Developing, Deploying, and Monitoring in the Cloud
- Module 8: Big Data and Machine Learning in the Cloud

2. Architecting with Google Compute Engine

- Module 1: Introduction to GCP
- Module 2: Virtual Networks
- Module 3: Virtual Machines
- Module 4: Cloud IAM
- Module 5: Storage and Database Services
- Module 6: Resource Management
- Module 7: Resource Monitoring
- Module 8: Interconnecting Networks
- Module 9: Load Balancing and Autoscaling
- Module 10: Infrastructure Automation
- Module 11: Managed Services

3. Getting Started with Google Kubernetes Engine

- Module 1: Introduction to Google Cloud
- Module 2: Containers and Kubernetes in Google Cloud
- Module 3: Kubernetes Architecture
- Module 4: Introduction to Kubernetes Workloads

Contact

If you have questions or need help registering for this course, click [here](#).



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