Getting Started with Google Kubernetes Engine

Preparing for the Professional Google Cloud Architect

Learn how to create and deploy containerized applications on Google Kubernetes Engine (GKE).

This course features a combination of lectures, demos, and hands-on labs to help participants explore and deploy solution elements — including infrastructure components like pods, and containers.

** This is a streamlined version of the original 3-day training course, providing you fundamental concept of Google Kubernetes Engine (GKE)*

Programme code	10016324
Duration and time	1 days 9:30-17:30
Venue	Free Webinar
Language	Cantonese, supplemented with English terminology
Course fee	Free of Charge
Prerequisites	The course is designed for participants who have completed Google Cloud Fundamentals: Core Infrastructure or have equivalent experience and have basic proficiency with command-line tools and Linux operating system environments.
Bring Your Own Device (BYOD)	Windows 7/10 / Mac OS 10.x or above with minimum 2 GB RAM and 20 GB hard disk

Objectives

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

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Course Outline

Module 1: Introduction to Google Cloud

- Use the Google Cloud Console.
- Use Cloud Shell.
- Define Cloud Computing.
- Identify Google Cloud compute services.
- Understand regions and zones.
- Understand the Cloud resource hierarchy.
- Administer your Google Cloud resources.

Module 2: Containers and Kubernetes in Google Cloud

- Create a container using Cloud Build.
- Store a container in Container Registry.
- Understand the relationship between Kubernetes and Google Kubernetes Engine (GKE).
- Understand how to choose among Google Cloud Compute platforms.

Module 3: Kubernetes Architecture

- Understand the architecture of Kubernetes: pods, namespaces.
- Understand the control-plane components of Kubernetes.
- Create container images using Cloud Build.
- Store container images in Container Registry.
- Create a Kubernetes engine cluster.

Module 4: Introduction to Kubernetes Workloads

- The kubectl command.
- Introduction to deployments.
- Pod networking.
- Volumes overview.

This course will be taught by Google Cloud Authorized Trainer.

Who Should Attend?

- ✓ Cloud architects, administrators, and SysOps/DevOps personnel
- ✓ Individuals using Google Cloud to create new solutions or to integrate existing systems, application environments, and infrastructure with the Google Cloud

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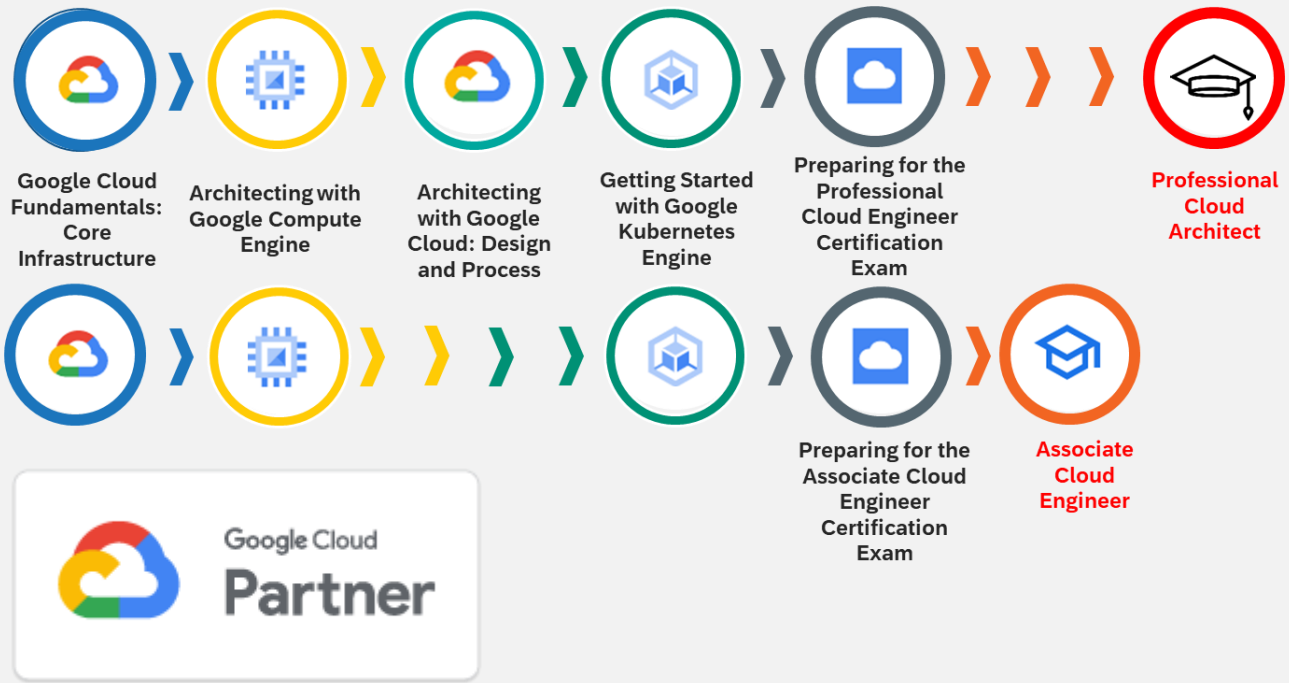
Google Cloud Technical Learning Path



Enrolment Methods

1. Scan the QR code to complete the enrolment and payment online OR
2. Mail the crossed cheque with payee name "Hong Kong Productivity Council" (in HK dollar) to HKPC Academy, Hong Kong Productivity Council, 3/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (attention to Mr Desmond CHAN). Please indicate the course name and course code on the envelope.

Enrolment Link

Supporting Organisations (In arbitrary order)

GDG Cloud Hong Kong

Hong Kong Computer Society 香港電腦學會

WTIA 香港無線科技商會

Hong Kong Software Industry Association 香港軟件行業協會

Inquiry

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