# Course : Getting Started with Google Kubernetes Engine

**Official course, preparation for Google Cloud certification exams**

*Practical course - 1d - 7h00 - Ref. GOY*
*Price : 1020 € E.T.*

With this training course you'll learn how to containerize workloads in Docker containers, deploy them on Kubernetes clusters provided by Google Kubernetes Engine and scale these workloads to handle increased traffic.

## Teaching objectives

**At the end of the training, the participant will be able to:**

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

## Intended audience

Application developers, cloud architects, DevOps engineers, IT managers.

## Prerequisites

Completion of "Google Cloud Fundamentals: Core Infrastructure" or equivalent knowledge. Proficiency in command-line tools and Linux operating system environments.

## Certification

We recommend you take this course if you want to prepare for the [ Google Cloud Professional Cloud Developer " certification.

Comment passer votre examen ?

## Practical details

**Teaching methods**

Training in French. Official course material in English.

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### PARTICIPANTS
Application developers, cloud architects, DevOps engineers, IT managers.

### PREREQUISITES
Completion of "Google Cloud Fundamentals: Core Infrastructure" or equivalent knowledge. Proficiency in command-line tools and Linux operating system environments.

### TRAINER QUALIFICATIONS
The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

### ASSESSMENT TERMS
Assessment of targeted skills prior to training.
Assessment by the participant, at the end of the training course, of the skills acquired during the training course.
Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.
At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.
An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

# Course schedule

### (1) Introduction to Google Cloud Platform

- Using Google Cloud Console.
- Use Cloud Shell.
- Defining cloud computing.
- Identify Google Cloud Compute services.
- Understanding regions and zones.
- Understand the cloud resource hierarchy.
- Manage Google Cloud resources.

### (2) Containers and Kubernetes in Google Cloud Platform

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

### (3) Kubernetes architecture

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

### (4) Introduction to Kubernetes workflows

- The kubectl command.
- How deployments are used in Kubernetes.
- Pod network architecture.
- Kubernetes storage abstractions.

## Dates and locations

**REMOTE CLASS**
2026 : 23 June, 8 Dec.

**PARIS LA DÉFENSE**
2026 : 23 June, 8 Dec.