

# Course : Google Cloud Fundamentals: Core Infrastructure

Official course, preparation for Google Cloud certification exams

**Practical course - 1d - 7h00 - Ref. GCQ**

**Price : 1020 € E.T.**

 4,5 / 5

ActionCo

Formation éligible au financement Atlas

With this training course, you'll gain an overview of Google Cloud products and services through lectures and hands-on work. You'll learn how to understand the value of Google Cloud and how to integrate cloud-based solutions into your business strategies.

## Teaching objectives

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

- ✓ Understand the value of Google Cloud products and services.
- ✓ Interact with the platform's main services.
- ✓ Deploy applications on App Engine, Kubernetes Engine or Compute Engine.
- ✓ Use Cloud Storage, Cloud SQL, Bigtable and Firestore storage solutions.

## Intended audience

Developers, systems engineers, architects and decision-makers who want to discover, evaluate or deploy applications on Google Cloud.

## Prerequisites

Basic knowledge of development, Linux systems, data or machine learning is recommended.

## Certification

We recommend you take this course if you want to prepare for the various Google Cloud certification exams.

[Comment passer votre examen ?](#)

## PARTICIPANTS

Developers, systems engineers, architects and decision-makers who want to discover, evaluate or deploy applications on Google Cloud.

## PREREQUISITES

Basic knowledge of development, Linux systems, data or machine learning is recommended.

## 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.

## Practical details

### Teaching methods

Training in French. Official course material in English.

## Course schedule

### 1 Introducing Google Cloud

- Overview of cloud computing.
- IaaS and PaaS.
- Google Cloud network.
- Environmental impact.
- Safety.
- Open APIs and open source.

### 2 Cloud resources and access

- Google Cloud resource hierarchy.
- IAM (identity and access management).
- IAM roles.
- Service accounts.
- Cloud Identity.
- Interaction with Google Cloud.

### 3 Virtual machines and networks in the cloud

- Virtual Private Cloud (VPC) network.
- Compute Engine.
- Virtual machine scaling.
- Key VPC compatibilities.
- Cloud CDN.
- Cloud Load Balancing.
- Cloud DNS.
- Connecting networks to Google VPC.

### 4 Cloud storage

- Cloud Storage.
- Cloud SQL
- Cloud Spanner.
- Firestore.
- Cloud Bigtable.
- Comparison of storage options.

### 5 Containers in the cloud

- Introduction to containers.
- Kubernetes and Google Kubernetes Engine.
- Hybrid and multi-cloud environments.

### 6 Cloud applications

- App Engine.
- Google Cloud API management tools.
- Cloud Run.

## TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

## TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

## ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) so that we can assess your request and its feasibility.

## 7 Development and deployment in the cloud

- Development in the cloud.
- Deployment: infrastructure as code.

## 8 Cloud-based logging and supervision

- Supervision.
- SLIs, SLOs and SLAs.
- Integrated monitoring, logging, alerts and debugging.

### Dates and locations

#### REMOTE CLASS

2026: 30 Apr., 25 June, 27 Aug., 29 Oct., 17 Dec.

#### PARIS LA DÉFENSE

2026: 30 Apr., 25 June, 27 Aug., 29 Oct., 17 Dec.