

Google Cloud Certification Journey

Professional Cloud Security Engineer

Cohort start date - April 04, 2024

Cohort ID: PCSE06-GETCERT/2024.04.04

Trainer: Maciej Zachariasz

Cohort Coordinator: Saumya Nautiyal

Program Lead: Alyssa Groves



Agenda

Market Trends



Why get Google Cloud certified?



Google Cloud Certifications



Google Cloud Certification Journey Overview



Additional Resources



Trends we are seeing in Training & Certifications



Increase in Certified IT Professionals

92% IT professionals (survey respondents) have at least 1 certification.



Skills Gap Issues Persist

76% of IT decision-makers experience critical skills gaps on their teams and it is 145% increase since 2016.



Invested Interest in Training

80% IT decision makers approved training for their staff.



Why professionals train?

The number one reason to train - cited by both IT decision makers and IT staff is to build new skills. In fact **74%** of IT professionals want to improve their skills set.

Skilled Workforce is Key to Transforming your Business

Comprehensively training organization are **80%** more likely to **achieve their business goals**

3x

More likely to achieve their innovation goals

3.8x

More likely to meet ROI objectives

4.4x

More likely to overcome operational concerns

1.9x

More likely to move beyond limited deployment

Google Cloud Certifications Business Impact

Organizations **modernize faster** and **increase business impact** with Google Cloud certified individuals



52%

Increase in closing
organizational skill gaps

44%

Boost in productivity

43%

More effective at meeting
clients' requirements

36%

Decrease in time when
troubleshooting issues

Based on survey responses from the 2020 Google Cloud certification impact report.
Based on responses from the Global Knowledge 2020 IT Skills and Salary Survey.

Why get Certified?



GCP certification proves that an engineer not only has real-world experience, but also has the technical knowledge to operate at the level required.

Welby McRoberts

Customer Reliability Engineer for Managed GCP, Rackspace Ltd.

78%

feel more confident
in professional future

83%

can prove cloud skill
competency to recruiters

81%

feel resume is more
attractive

87%

feel more confident in
cloud skills

Why Certify?



Google Cloud certifications give individuals **confidence, credibility**, and opportunities for **career advancement and personal development**.

Google Cloud Certifications

Google Cloud Certifications Overview

Foundational

Cloud knowledge and working in the cloud

Associate

Recommended 6+ months hands-on experience with GCP

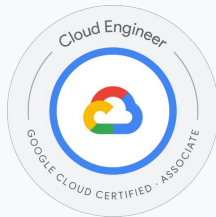
Professional

Recommended 3+ years industry experience & 1 year hands-on experience with GCP

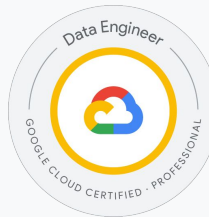
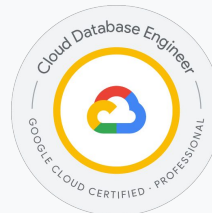
Cloud Digital Leader



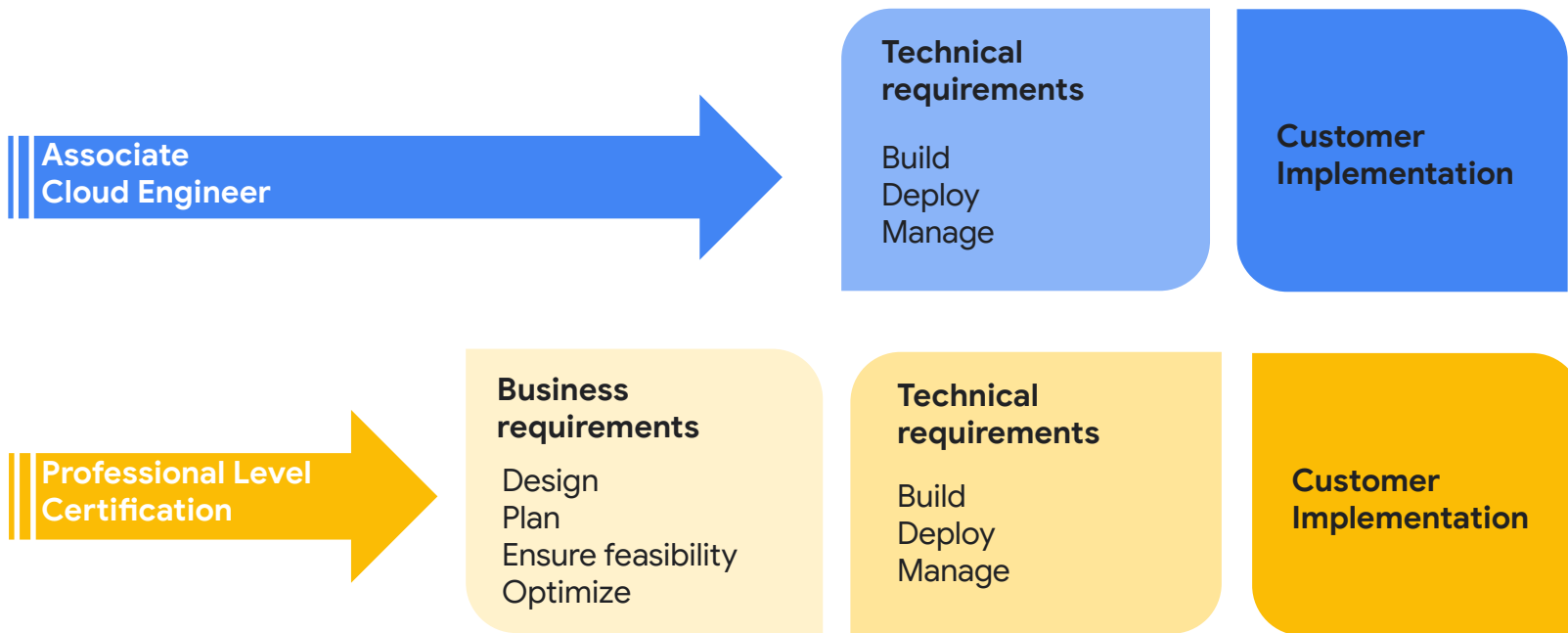
Associate Cloud Engineer



Professional Level Certifications



What is the difference between an **Associate** vs. **Professional** certification?



Professional Cloud Security Engineer

Recommended Experience - 3+ years of industry experience plus 1+ years designing and managing solutions using GCP



Role Responsibilities:

- Design and implement secure workloads and infrastructure.
- Develops, and manages a secure infrastructure.
- Identity and access management.
- data protection, configuring network security defenses, collecting and analyzing Google Cloud logs



Exam Coverage

- Configure access within a cloud solution environment
- Manage operations within a cloud solution environment
- Configure network security
- Ensure compliance
- Ensure data protection

Google Cloud Certification Journey Overview

Certification Journey Learning Program

A **guided 10 week-job program** which prepares technical practitioners for in-demand/ILT **Google Cloud certifications**. **Certifications** validate technical expertise and take careers to the next level.



Professional Cloud Security Engineer

Dates overview

Weeks

1-5

Time zone:
IST

Pre-work

To be done
before:

April 04 2024

Week 1

Start

April 04 2024

Duration

~ 13 h

Week 2

Start

April 11 2024

Duration

~ 17 h

Week 3

Start

April 18 2024

Duration

~ 18 h

Week 4

Start

April 25 2024

Duration

~ 2 h

Week 5

Start

May 02 2024

Duration

~ 13 h

Exam guide reviews sessions / Arcade session

Date

April 04 2024

Time

09:30-11:00

Session recorded*

Date

April 12 2024

Time

09:30-11:00

Session recorded*

Date

April 18 2024

Time

09:30-11:00

Session recorded*

Date

April 25 2024

Time

09:30-10:30

Session recorded*

Date

May 02 2024

Time

09:30-11:00

Session recorded*

Following
weeks on
the next
page

Online community support: The main communication channel of this program.

Connect with technical advisor to clarify remaining areas.

Peer to peer discussions and questions will be monitored during working days.

End June 12 2024

Professional Cloud Security Engineer

Dates overview

Weeks

6-10

Time zone:
IST

Week 6	Week 7	Week 8	Week 9	Week 10	Exams
Start May 09 2024	Start May 16 2024	Start May 23 2024	Start May 30 2024	Start June 06 2024	
Duration ~ 8 h	Duration ~ 5 h	Duration ~ 8 h	Duration ~ 2 h	Duration ~ 2 h	
Exam guide reviews sessions / Mentor office hours					
Date May 09 2024	Date May 16 2024	Date May 23 2024	Date May 30 2024	No session	
Time 09:30-11:00	Time 09:30-11:00	Time 09:30-10:30	Time 09:30-10:30	Self study	
Session recorded*	Session recorded*	Session recorded*	Session recorded*		
Online community support: The main communication channel of this program. Connect with technical advisor to clarify remaining areas. Peer to peer discussions and questions will be monitored during working days.				End	June 12 2024

Learning plan
continuation

Professional Cloud Security Engineer

Learning plan

Weeks

1-5




★ Skill badge

Pre-work

Review:

[Professional Cloud Security Engineer Certification Exam Guide](#)

[Professional Cloud Security Engineer Sample Questions](#)

Week 1	Week 2	Week 3	Week 4	Week 5
Please complete:	Please complete:	Please complete:	Please complete:	Please complete (optional):
★ Implement Load Balancing on Compute Engine Required*	★ Implement Cloud Security Fundamentals on Google Cloud Required*	★ Build a Secure Google Cloud Network Required*		★ Protect Cloud Traffic with BeyondCorp Enterprise (BCE) Security Required*
Managing Security in Google Cloud	Networking in Google Cloud: Defining and Implementing Networks	Security Best Practices in Google Cloud	Speed challenge (Arcade) Earn \$20,000 in GCP credits and swag: Arcade game, speed challenge on Cloud Skill Boost for 7 days. Participation optional*	Networking in Google Cloud: Hybrid Connectivity and Network Management

Following weeks on the next page

Exam Voucher: You can apply for an exam voucher starting from **week 6**, after meeting the below criteria:

*Complete at least **5 (out of 6)** Google Cloud skill badges from your learning plan, share your public GCSB profile with us by filling in this [form](#) and get your exam voucher! Voucher is awarded based on skill badges completion and the availability.

The voucher form is open by 5th of July, 2024.

Please attempt the exam by 15th of July, 2024.

Professional Cloud Security Engineer

Learning plan

Weeks

6-10

★ Skill badge



Exams



Week 6

Please complete:

★ [Protect Sensitive Data with Data Loss Prevention](#)

Required*

Week 7

Please complete:

★ [Monitor and Log with Google Cloud Operations Suite](#)

Required*

Week 8

Please complete:

[Logging and Monitoring in Google Cloud](#)

Week 9

Please review:

Build exam readiness.
Revise materials and session recordings.

Week 10

Exam prep time:

Claim your exam voucher and book the exam!*

[Mitigating Security Vulnerabilities on Google Cloud](#)



Get you voucher if you completed already 5 skill badges!



Skill badge completion deadline.



Please attempt the GCP exam.

Exam Voucher: You can apply for an exam voucher starting from **week 6**, after meeting the below criteria:

*Complete at least **5 (out of 6)** Google Cloud skill badges from your learning plan, share your public GCSB profile with us by filling in this [form](#) and get your exam voucher! Voucher is awarded based on skill badges completion and the availability.

The voucher form is open by 5th of July, 2024.

Please attempt the exam by 15th of July, 2024.

Learning plan
continuation

Earn skill badges along the way

A [Google Cloud skill badge](#) is a digital badge issued by Google Cloud in recognition of an individual's cloud proficiency with Google Cloud products and services and tests their ability to apply that knowledge in an interactive hands-on environment



Google Cloud

Create and Manage
Cloud Resources

INFRASTRUCTURE MODERNIZATION SKILL



Google Cloud

Perform Foundational
Infrastructure Tasks

INFRASTRUCTURE MODERNIZATION SKILL



Google Cloud

Perform Foundational Data,
ML, and AI Tasks

SMART ANALYTICS SKILL



Google Cloud

Automating Infrastructure on
Google Cloud with Terraform

INFRASTRUCTURE MODERNIZATION SKILL

[Watch this video](#) and learn what are the Google Cloud skill Badges.
[This article](#) describes the value of the Google Cloud Skill Badges.

Program elements



10 weeks guided learning program

Starting on 04th of April, 2024 at 09:30 AM IST



Technical mentorship provided by a dedicated trainer in a format of:

- **6 Exam guide review sessions**
(online live sessions with a technical mentor. Sessions have a predefined content and structure)
- **2 Mentor office hours**
(online live support sessions with a technical mentor. Participants can join the sessions to receive support and technical guidance.)
- **10 weeks support via Online Community.**



A dedicated cohort coordinator: Saumya Nautiyal saumyanautiyal@google.com

Available Monday till Friday during business hours.



Exam voucher information

Get your exam voucher by filling this [form](#). Please allow 24-72 hours to receive the voucher (from the request date). Please attempt the exam by **15th July, 2024**.



Learning platforms

Google Cloud Skills Boost with access to the on-demand courses and for hands-on labs.

Program Resources

Training Platforms

Communication Channels

And... other available resources :-)

Google Cloud Skills Boost (form. Qwiklabs)

1. Google Cloud Skills Boost is an online learning environment along with a set of instructions to walk you through a live, real world, and scenario-based use case. In a lab you have access to the actual environment you want to learn about, not a simulation or demo environment. You can access the lab environment from anywhere on the Internet using a standard browser.
 1. You have a 10 weeks Google Cloud Skills Boost subscription with access to all Google Cloud labs, quests and Skill Badges. **Read carefully the email "Please create and activate your Google Cloud Skills Boost account :-)" sent on 03rd April, 2024.** It has all the information you need to activate the account properly.
1. Qwiklabs support can be reached via:
 - a. Email: support@qwiklab.com
 - b. [Qwiklabs Support Portal](#)
 - c. Chat support
 2. While contacting Qwiklabs support please provide the following:
 - a. Your login email address
 - b. Description of an issue to be solved
 - c. Screenshots of the issue (if needed)

Communication Channels



Weekly Emails

Receive useful information on the status of your learning and tips & tricks to get the most out of your prescribed learning journey.



Exam Guide Review Sessions

Weekly exam guide review sessions with a dedicated trainer. The trainer will answer questions and provide additional advice and preparation resources. 6 Exam Guide Review sessions, all sessions will be recorded and available for your cohort only.



Community Forum

For peer to peer support and a direct communication channel with your trainer.

pcse06-GETCERT_Q1_2024@googlegroups.com











Program Drive

Program assets, including the recordings from the exam guide review sessions will be stored here. Please make sure you can access this place.

Program shortcuts

Proprietary + Confidential

Program asset	Access via	Content	Link
Online Community via Google Groups	Google Account	<ul style="list-style-type: none">• Weekly updates according to learning plans• Trainer's support on technical questions• Cohort coordinator's support for program questions• Additional information about program-related events, news, features etc.	 
Program Folder via Google Drive	Google Account	<ul style="list-style-type: none">• Learning plan• Session's decks• Recordings• Other materials	 
On demand training and Hands-on practice via Google Cloud Skills Boost	Company email address	<ul style="list-style-type: none">• Google Cloud Skills Boost is an online learning environment along with a set of instructions to walk you through a live, real world, and scenario-based use case. In a lab you have access to the actual environment you want to learn about, not a simulation or demo environment.	 
Google Form	Google Account	<ul style="list-style-type: none">• To grant the access to Google Groups and Google Drive.	 

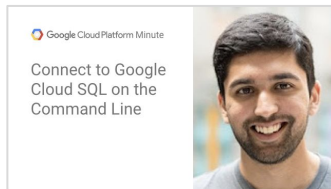
Additional resources

- Exam outlines and sample questions
- Product [documentation](#)
- Online practice labs and quests
- [“Free” Google Cloud accounts \(\\$300 credit\)](#)
- [Google Cloud Tech Youtube Channel](#)
- [Google Cloud Blog](#)
- [GCP sketchnote](#)
- [The Cloud Girl](#) - next pages present some examples.



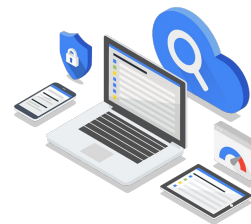
Google Cloud Tutorials

Find [step-by-step instructions](#) for completing common tasks like automated network deployment, disaster recovery planning, and more.



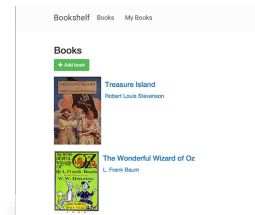
Cloud Minute

Watch one-minute how-to [videos](#) for dozens of simple tasks, like adding APIs to a Cloud Platform project or creating a bucket in GCS.



Google Cloud Quickstarts

Get started with Cloud Platform products, services, and APIs with these short [tutorials](#) – which range from beginner to advanced topics.



Sample Projects

Dive right into coding with [examples](#) that demonstrate how to use popular and powerful Google Cloud Platform products and features.

Questions? :-)

Let's get started! :-)



Contact info

If you have any questions, feel free to contact:

pcse06-GETCERT_Q1_2024@googlegroups.com
saumyanautiyal@google.com

Google Cloud

