Google Cloud

Google Cloud Certification Journey
Professional Cloud Security Engineer

Cohort start date - May 26, 2023

Cohort ID: PCSE01/2023.05.26
Trainer: Maciej Zachariasz
Cohort Coordinator: Jacek Makowski
Program Lead: Alyssa Groves, Joanna Senderak Jankowska

Agenda

Market Trends

Why get Google Cloud certified?

Google Cloud Certifications

Google Cloud Certifications Journey Overview

Program details

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.

Based on responses from the Global Knowledge 2021 IT Skills and Salary Survey.

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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

Based on responses from the IDC report Train to Accelerate Your Cloud Strategy.

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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.

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Professional Cloud Security Engineer Certification Journey Program

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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

Google Cloud
Certifications

Google Cloud Certifications Overview

Foundational
Cloud knowledge and working in the cloud

Associate
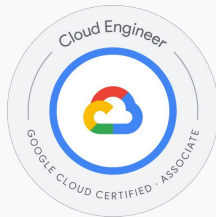Recommended 6+ months hands-on experience with GCP

Professional
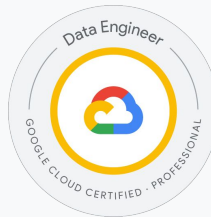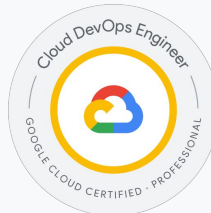Recommended 3+ years industry experience & 1 year hands-on experience with GCP
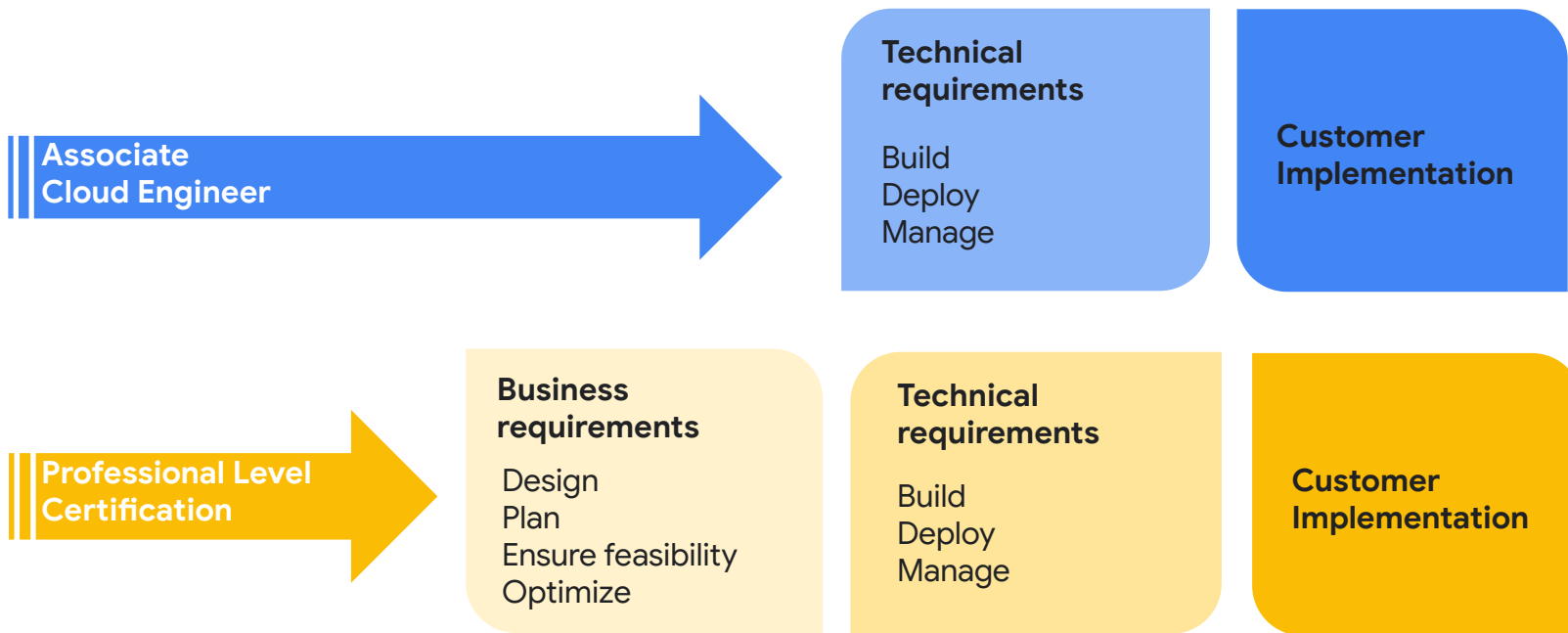
Cloud Digital Leader

Cloud Digital Leader
GOOGLE CLOUD CERTIFIED

Associate Cloud Engineer

Cloud Engineer
GOOGLE CLOUD CERTIFIED · ASSOCIATE

Professional Level Certifications

Cloud Architect — GOOGLE CLOUD CERTIFIED · PROFESSIONAL
Cloud Developer — GOOGLE CLOUD CERTIFIED · PROFESSIONAL
Cloud Database Engineer — GOOGLE CLOUD CERTIFIED · PROFESSIONAL
Cloud DevOps Engineer — GOOGLE CLOUD CERTIFIED · PROFESSIONAL
Cloud Network Engineer — GOOGLE CLOUD CERTIFIED · PROFESSIONAL
Cloud Security Engineer — GOOGLE CLOUD CERTIFIED · PROFESSIONAL
Data Engineer — GOOGLE CLOUD CERTIFIED · PROFESSIONAL
Machine Learning Engineer — GOOGLE CLOUD CERTIFIED · PROFESSIONAL
Google Workspace Administrator — GOOGLE CERTIFIED · PROFESSIONAL

What is the difference between a Associate vs. Professional certification?

Associate Cloud Engineer →

Technical requirements

Build
Deploy
Manage

Customer Implementation

Professional Level Certification →

Business requirements

Design
Plan
Ensure feasibility
Optimize

Technical requirements

Build
Deploy
Manage

Customer Implementation

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

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Certification Journey Program Overview

Certification Journey Learning Program

A **guided 8 week program** which prepares technical practitioners for in-demand/ILT **Google Cloud certifications. Certifications** validate technical expertise and take careers to the next level.

Program elements

8 weeks guided learning program
Starting on 26th of May, 2023, at 9:00 AM BST

Technical mentorship
provided by a **dedicated trainer** in a format of 6 exam guide review sessions and 8 weeks **support** via **Online Community**

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

A dedicated cohort coordinator
Jacek Makowski
jmakowski@google.com

Exam voucher information
Get your exam voucher by filling this form

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Professional Cloud Security Engineer

Dates overview

Time zone: BST

Pre-work	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Exams
To be done before:	Start	Start	Start	Start	Start	Start	Start	Start	
May 26 2023	May 26 2023	June 02 2023	June 09 2023	June 16 2023	June 23 2023	June 30 2023	July 07 2023	July 14 2022	
	Duration	Duration	Duration	Duration	Duration	Duration	Duration	Duration	
	~ 17 h	~ 16 h	~ 19 h	~ 17 h	~ 9 h	~ 9 h	~	~	

Exam guide reviews sessions

Date	Date	Date	Date	Date	Date	No session	No session
May 26 2023	June 02 2023	June 09 2023	June 16 2023	June 23 2023	June 30 2023		
Time	Time	Time	Time	Time	Time		
09:00-10:30	09:00-10:30	09:00-10:30	09:00-10:30	09:00-10:30	09:00-10:30		

Online community support

End July 21 2023

Professional Cloud Security Engineer in 8 weeks

Learning plan

★ Skill badge

Pre-work	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Exams
Review:	Complete:	Complete:	Complete:	Complete:	Practice:	Practice:	Practice:	Review:	
[Professional Cloud Security Engineer Certification Exam Guide](#)	[Networking in Google Cloud: Defining and Implementing Networks](#)	[Networking in Google Cloud: Hybrid Connectivity and Network Management](#)	[Security Best Practices](#)	[Logging, Monitoring, and Observability in Google Cloud](#)	★ [Build and Secure Networks in Google Cloud](#)	[Preparing For Your Professional Cloud Security Engineer Journey Workbook](#)			
[Professional Cloud Security Engineer Sample Questions](#)		[Managing Security in Google Cloud Platform](#)	[Mitigating Security Vulnerabilities on Google Cloud](#)		★ [Ensure Access & Identity in Google Cloud](#)		**Contact your peers and technical mentor via Online Community. Get your questions answered and build your exam readiness.**		

Exam Voucher: You can apply for an exam voucher any time during this program. Complete at least **2** (out of 2) Google Cloud Skill Badges from your learning plan, share your public Skills Boost Profile with us by filling in this **form,** and **get your exam voucher!**
A limited number of vouchers are available. First come, first served!
The form is open by **September 10, 2023.**

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.

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Create and Manage Cloud Resources

INFRASTRUCTURE MODERNIZATION SKILL

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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.

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Program Resources

Training Platform
Communication Channels
And... other available resources :-)

Google Cloud Skills Boost

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.
2. You have a 10-week 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 May 25.** 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.

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

Program asset	Access via	Content	Link
Online Community via **Google Groups**	Google Account	• 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	• Learning plan • Session's decks • Recordings • Other materials	🔗
On-Demand content and Hands-on Labs via **Google Cloud Skills Boost**	Company email address	• 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	• To grant the access to Google Groups and Google Drive.	🔗

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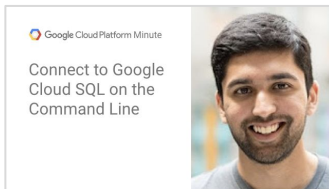
Additional resources

- 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.

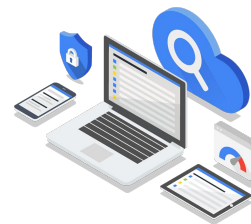## Google Cloud Tutorials

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

Google Cloud Quickstarts

Get started with Cloud Platform products, services, and APIs with these short tutorials – which range from beginner to advanced topics.
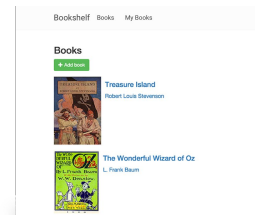
Cloud Minute

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.

Sample Projects

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

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Program best practices

Commit to completing the entire program, organize with your company projects accordingly.

Enjoy sessions with your trainer! Take notes, ask questions, be present and active.

Give yourself time to review exam recommended topics and take advantage of exam guide deep dives and live Q&A during the sessions with the trainer.

Register to take the exam as soon when you feel fully prepared:-)

Take advantage of the online community - reach out to your trainer, ask questions, brainstorm ideas, and support your peers.

Become a Certified Professional Cloud Security Engineer! 🎉

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Contact info

If you have any questions, feel free to contact:

- pcse01_getcert_q2_2023@googlegroups.com

Google Cloud

Let's get started! 🎉😀

Questions? :-)