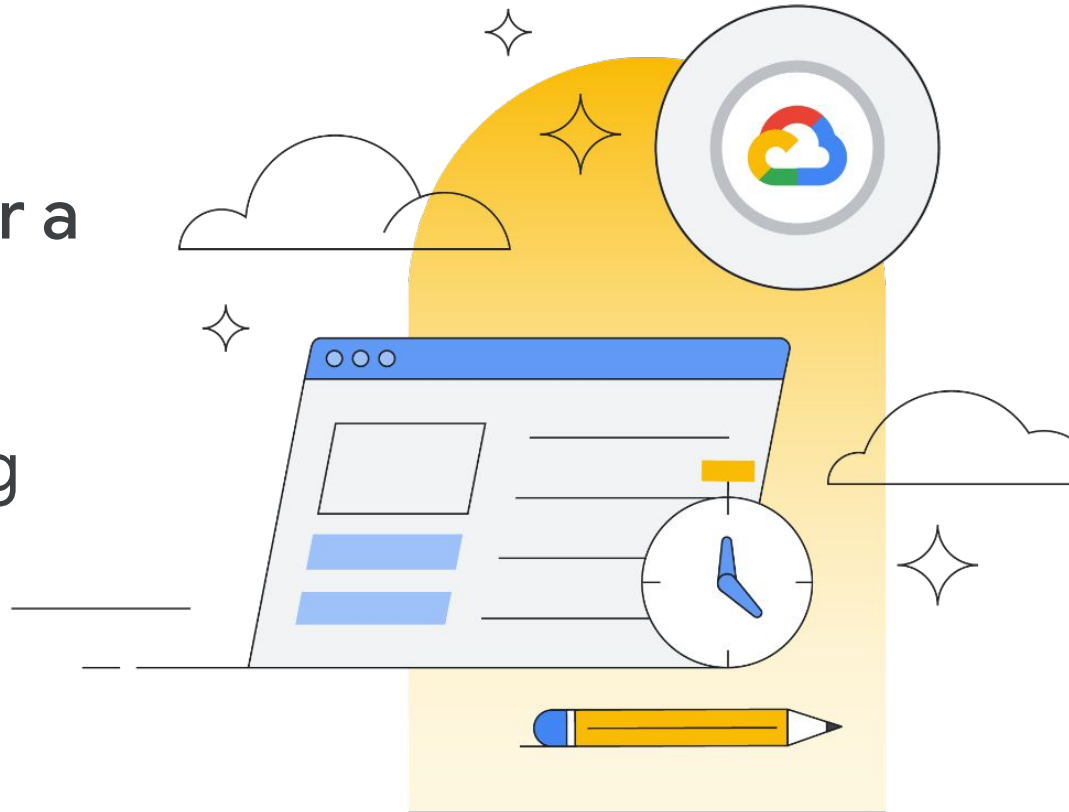


Preparing Students for a Cloud-First World

Google Cloud Learning in Higher Education



What's Inside



In-demand skills for a cloud-first job market



Faculty-facilitated Cloud learning



Faculty and student benefits

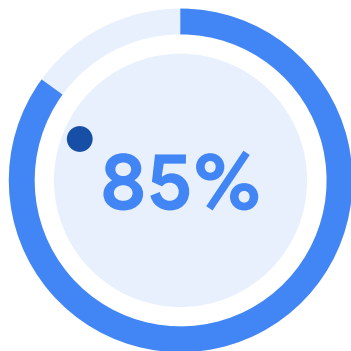


Get started

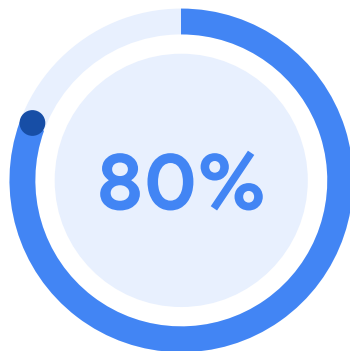
In-demand skills for a cloud-first job market



Skills to meet the demands of a cloud-first job market



Of enterprises will adopt a cloud first principle by 2025¹



Of IT leaders feel that they have a lack of skills and knowledge among their employees.²



More than $\frac{1}{3}$ of tech leaders said professionals with cloud skills are the most challenging to find.³



¹ Source - Gartner®, Gartner says Cloud will be the Centerpiece of the New Digital Experience, Laurence Goasduff, November 10, 2021

² Germain, J. M. (2020, November 3). Skills shortage rains on cloud advances. TechNewsWorld. Retrieved March 29, 2022, from <https://www.technewsworld.com/story/skills-shortage-rains-on-cloud-advances-86906.html>

³ Source: Robert Half survey of more than 1,500 senior technology managers in the US, March 30, 2022 <https://www.roberthalf.com/blog/job-market/cloud-hiring-trends-for-2022>

Challenges facing faculty and instructors

Maintaining curriculum

Developing and maintaining curriculum for rapidly evolving technologies can be time-consuming.

Resource constraints

Resources, including faculty capacity, TA availability, and classroom space, are stretched thin.

Expanding CS enrollments

Enrollments are expanding rapidly due to high demand for computer science courses from CS majors and non-majors.

Learning programs that support students on a path to credentials and certification



Learn

Access to on-demand courses and curriculum pathways designed to prepare students for role-based learning.



Practice

Skill badge credentials provide job-ready cloud experience with hands-on labs in the Google Cloud console. These credentials demonstrate cloud proficiency in high-demand skills.



Prepare

Ready to become certified? Google Cloud has exam guides, sample questions, and case studies available to help students best prepare for the exam.



Certify

Students can pursue the Cloud Digital Leader and/or Associate Cloud Engineer certification. Proctored certification exams are available to take at home or in a testing center.



Ongoing Learning

Students can continue to sharpen and evolve their skills and validate their abilities with access to Google Cloud Skills Boost.

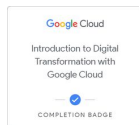
Google Cloud career readiness

A cohort-based learning program that blends faculty-facilitated and on-demand content.



Google Cloud Credentials & Certifications

Cloud Digital Leader

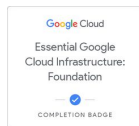


4 Completion Badges



Google Cloud Certification

Associate Cloud Engineer



6 Completion Badges

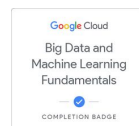


4 Skill Badges

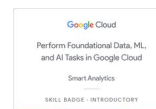


Google Cloud Certification

Data Analyst

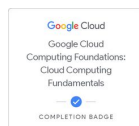


7 Completion Badges



8 Skill Badges

Google Cloud Computing Foundations*



4 Completion Badges



4 Skill Badges

* Customizable end-to-end curriculum package



Cloud Digital Leader learning path

Audience

The core audience for this track are student learners who wish build cloud literacy and learn to distinguish and evaluate the capabilities of Google Cloud and how it can be used to achieve business goals.

This knowledge can be applied to any role where understanding the purpose and application of Google Cloud is needed.

Duration

10 hours

Prerequisites

- None

Faculty-facilitated, on-demand learning program

Students will

- Gain 6-month access to the [Cloud Digital Leader Learning Path](#) on Google Cloud Skills Boost
- Earn a series of [Google Cloud credentials](#) upon completion
- Prepare for the [Cloud Digital Leader certification](#) exam, with access a curated [Student Preparation Guide](#).

Students who complete the entire Learning Path are eligible for a 50% exam discount (faculty facilitators who complete the program are eligible for 100% discount).

Apply at g.co/edu/cloudready



Associate Cloud Engineer learning path

Audience

The core audience for this track include learners who wish to build expertise in cloud infrastructure and prepare for careers in a hybrid cloud world. A Cloud Engineer plans, configures, sets up, and deploys cloud solutions.

Duration

~65 hours

Prerequisites

Learners should be familiar with:

- Operating systems
- File systems
- The IP networking stack
- How web browsers and web servers communicate
- Databases
- Programming
- Working with Linux at the command line
- Editing text files from the Linux command line

Apply at g.co/edu/cloudready

Faculty-facilitated, on-demand learning program

Students will

- Gain 6-month access to the [Cloud Engineer Learning Path](#) on Google Cloud Skills Boost
- Earn a series of [Google Cloud credentials](#) upon completion (skill badges and completion)
- Prepare for the [Associate Cloud Engineer certification exam](#), with access a curated [Student Preparation Guide](#).

Students who complete the entire Learning Path are eligible for a 50% exam discount (faculty facilitators who complete the program are eligible for 100% discount).

Data Analyst learning path

Audience

The core audience for this track are student learners who wish to explore careers in data analytics, business intelligence, data engineering, and data science.

Duration

~90 hours

Prerequisites

Students should be familiar with:

- Statistics
- ANSI SQL

Faculty-facilitated, on-demand learning program

Students will

- Gain 6-month access to the [Data Analyst Learning Path](#) on Google Cloud Skills Boost
- Earn a series of [Google Cloud credentials](#) upon completion (skill badges and completion badges)

Apply at g.co/edu/cloudready

Google Cloud Computing Foundations

Customizable curriculum and on-demand content

Audience

The curriculum enables learners to develop technical proficiency in cloud computing and launch or pivot to careers in a cloud-first world.

This course is an ideal foundation for diverse career paths including those in IT infrastructure, data analytics, and cloud-native application development.

Duration

30-40 hours

Prerequisites

Learners should:

- Have basic IT knowledge and be interested in learning more about the cloud and ML.
- Have competency in at least one language (such as Python, Java).
- Be familiar with the basics of shell scripting, SQL.

Faculty-led and on-demand learning program

Faculty will

- Receive access to curriculum resources (Slides, Instructor Guide, Lesson Plans, Assessment Questions)
- Facilitate student access to on-demand cohort

Students will

- Gain 6-month access to the [Google Cloud Computing Foundation Learning Path](#) on Google Cloud Skills Boost
- Earn a series of [Google Cloud credentials](#) upon completion (skill badges and completion)

Learn more and apply at cloud.google.com/edu/curriculum

Faculty and Student Benefits

Google Cloud education credits and resources that can be used to enhance and augment your existing programs.



Google Cloud Education Credits

Access free Google Cloud credits for use in academic courses

Teaching Credits

Teaching credits provide **direct access** to **Google Cloud console**:

- ✓ Request \$50 in Google Cloud credits per student, per course
- ✓ No credit card required
- ✓ Credits are good for 12 months
- ✓ Projects are turned off after credits expire (no accidental billing)

Apply at g.co/edu/teachwithcloud.

Training Credits

Training credits provide access to the **Google Cloud Skills Boost** learning platform:

- ✓ Request 5000 credits to distribute to your students
- ✓ Share credits via a [Share Group](#) and get insights into your students' progress
- ✓ No credit card required

Apply at edu.google.com/programs/credits/training.

Big Data Resources

Explore and access free data sets for use in project-based learning



BigQuery Sandbox

Free access to use the BigQuery web UI in the Cloud Console without providing a credit card.



Kaggle

Jupyter Notebooks environment access to free GPUs and community-published data and code.



Google Colab

Free Jupyter notebook environment that requires no setup and runs entirely on the Cloud.



Public Datasets

Over 190 datasets in BigQuery/Cloud Storage.

Explore public datasets at
cloud.google.com/public-datasets.



Ready to get started?

Apply today!

Apply to facilitate a Google Cloud career readiness learning path

g.co/edu/cloudready

Apply to deliver Google Cloud Computing Foundations curriculum

cloud.google.com/edu/curriculum

Check out additional faculty benefits

g.co/cloudforedu



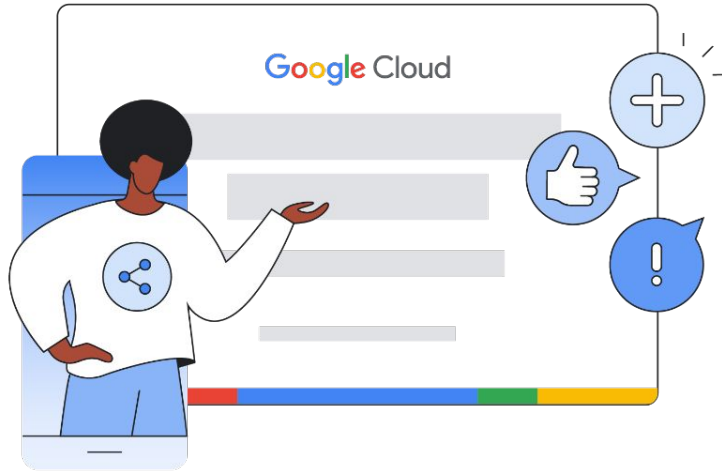


Thank you.

Appendix



Google Cloud Skills Boost



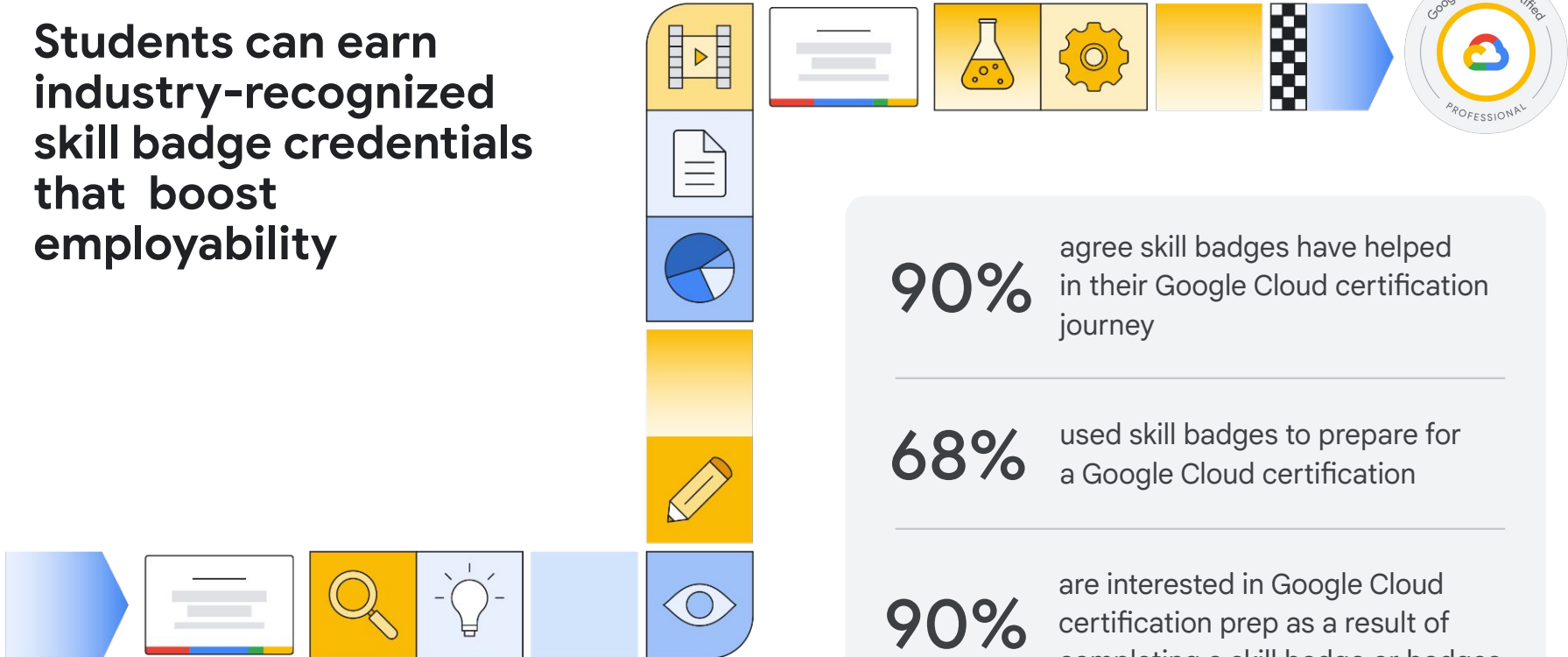
Skill badge holders feel more confident in their cloud skills and professional endeavors

83% feel more confident in their cloud skills

78% feel more confident in their professional future

78% can prove cloud skill competency to recruiters for in-demand jobs

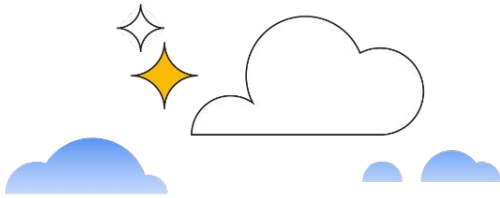
Students can earn industry-recognized skill badge credentials that boost employability



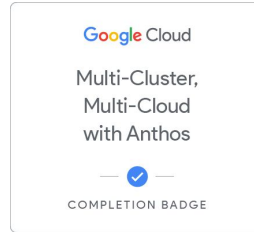
90% agree skill badges have helped in their Google Cloud certification journey

68% used skill badges to prepare for a Google Cloud certification

90% are interested in Google Cloud certification prep as a result of completing a skill badge or badges



Earn Google Cloud credentials and certifications



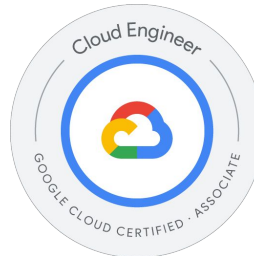
Completion badges

Reward learner for engagement and completion of learning activities and courses



Skill badge credentials

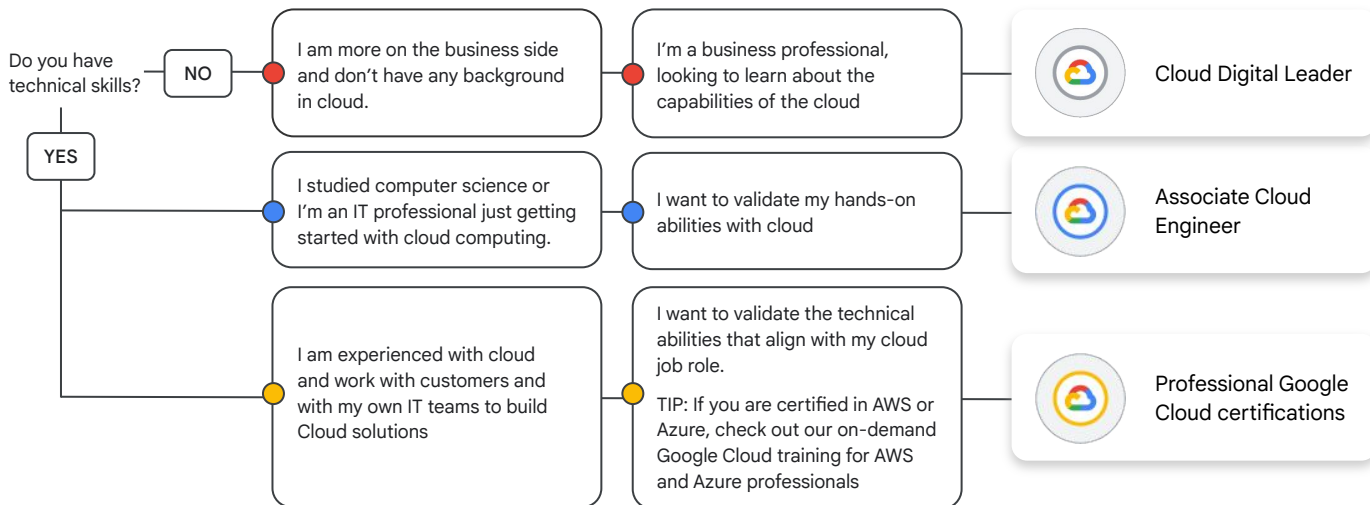
Recognize learner's knowledge and hands-on skills with Google Cloud demonstrated by the completion of learning and assessment



Certifications

Validate mastering the knowledge and skills at performing an end-to-end job role using Google Cloud technology

Which Google Cloud certification is right for me?



Check out our exam guide to get a sense of what topics might be covered on the exam and the experience needed.

Google Cloud certifications are not meant to be taken sequentially. Each certification is meant for different job roles and skill sets.

How do I prepare for my certification exam?

- Access on-demand training through Google Cloud Skills Boost
- Earn completion badges when you complete an on-demand course
- Earn skill badges for technical individuals, by completing a series of hand-on labs
- Test your knowledge with sample questions along the way

Feeling ready?

Schedule your exam to be taken remotely or in-person at a testing center.