## Course 1 overview



# to Course 1

Hello, and welcome to Foundations of Cybersecurity, the first course in the Google Cybersecurity Certificate. You've begun an exciting journey!

In this course, you will learn the primary job responsibilities and core skills of those who work in the field of cybersecurity. You will explore the eight Certified Information Systems Security Professional (CISSP) security domains, various security frameworks and controls, as well as a foundational security model called the confidentiality, integrity, and availability (CIA) triad. You will also be introduced to some common tools used by security analysts that help protect organizations and people alike.

### Certificate program progress

The Google Cybersecurity Certificate program has eight courses. **Foundations of Cybersecurity** is the first course.



events that led to the development of the cybersecurity field and its continued importance to organizational operations. Learn about entry-level cybersecurity roles and responsibilities. Play It Safe: Manage Security Risks — Identify how cybersecurity professionals use frameworks and

Foundations of Cybersecurity ☐ — (current course) Explore the cybersecurity profession, including significant

- controls to protect business operations, and explore common cybersecurity tools. Connect and Protect: Networks and Network Security ☐ — Gain an understanding of network-level
- 4. Tools of the Trade: Linux and SQL Explore foundational computing skills, including communicating with the Linux operating system through the command line and querying databases with SQL.
- threat actor mindset to protect and defend an organization's assets from various threats, risks, and vulnerabilities.

5. Assets, Threats, and Vulnerabilities — Learn about the importance of security controls and developing a

tools to detect and respond to cybersecurity incidents. 

6. Sound the Alarm: Detection and Response - Understand the incident response lifecycle and practice using

- to automate cybersecurity tasks. 8. Put It to Work: Prepare for Cybersecurity Jobs — Learn about incident classification, escalation, and ways to communicate with stakeholders. This course closes out the program with tips on how to engage with the
- Course 1 content

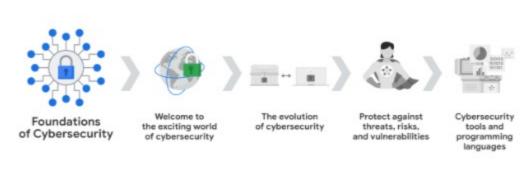
Each course of this certificate program is broken into weeks. You can complete courses at your own pace, but the weekly breakdowns are designed to help you finish the entire Google Cybersecurity Certificate in about six months.

What's to come? Here's a quick overview of the skills you'll learn in each week of this course.

### Week 1: Welcome to the exciting world of cybersecurity

cybersecurity community and prepare for your job search.

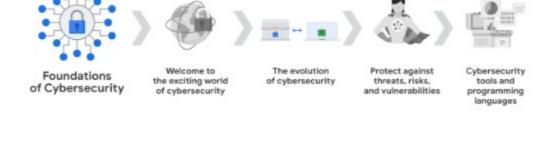
vulnerabilities and how to secure networks.



cybersecurity professionals.

Begin your journey into cybersecurity! You'll explore the cybersecurity field, and learn about the job responsibilities of

Week 2: The evolution of cybersecurity



you'll get an overview of the eight security domains. Week 3: Protect against threats, risks, and vulnerabilities

You will explore how cybersecurity threats have appeared and evolved alongside the adoption of computers. You will also understand how past and present cyber attacks have influenced the development of the security field. In addition,

# 1 40

Foundations

of Cybersecurity



tools and

threats, risks,

Week 4: Cybersecurity tools and programming languages



the exciting world

The evolution

of cybersecurity

Each course offers many types of learning opportunities: Videos led by Google instructors teach new concepts, introduce the use of relevant tools, offer career support, and provide inspirational personal stories.

# Readings build on the topics discussed in the videos, introduce related concepts, share useful resources, and

Python and SQL.

What to expect

describe case studies. Discussion prompts explore course topics for better understanding and allow you to chat and exchange ideas

to assess your own work by comparing it to a completed example.

- with other learners in the discussion forums . Self-review activities and labs give you hands-on practice in applying the skills you are learning and allow you
- in the course. In-video quizzes help you check your comprehension as you progress through each video.

Interactive plug-ins encourage you to practice specific tasks and help you integrate knowledge you have gained

- **Practice quizzes** allow you to check your understanding of key concepts and provide valuable feedback.
- higher on each graded quiz to obtain a certificate, and you can take a graded quiz multiple times to achieve a passing score.

Graded quizzes demonstrate your understanding of the main concepts of a course. You must score 80% or

## It is strongly recommended that you go through the items in each lesson in the order they appear because new

Tips for success

- information and concepts build on previous knowledge. Participate in all learning opportunities to gain as much knowledge and experience as possible.
- If something is confusing, don't hesitate to replay a video, review a reading, or repeat a self-review activity. Use the additional resources that are referenced in this course. They are designed to support your learning. You
- When you encounter useful links in this course, bookmark them so you can refer to the information later for study or review.
- Understand and follow the Coursera Code of Conduct to ensure that the learning community remains a welcoming, friendly, and supportive place for all members.



Mark as completed



can find all of these resources in the Resources 🗹 tab.