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Google

Google Cybersecurity Professional Certificate

Get on the fast track to a career in cybersecurity. In this certificate program, you'll learn in-demand skills, and get AI training from Google experts. Learn at your own pace, no degree or experience required.

Instructor: Google Career Certificates

New AI skills

Enroll for free
Starts Nov 20

1,201,542 already enrolled

Included with coursera PLUS • Learn more

9 course series

Earn a career credential that demonstrates your expertise

4.8 ★

(50,843 reviews)

Beginner level

No prior experience required

Flexible schedule

6 months at 7 hours a week
Learn at your own pace

Build toward a degree

Learn more

What you'll learn

- ✓ Understand the importance of
- ✓ Identify common risks, threats, and

Enroll for free
Starts Nov 20

data from unauthorized access and cyberattacks using Security Information and Event Management (SIEM) tools.

Linux, and SQL.

Skills you'll gain

Hardening | Bash (Scripting Language) | Vulnerability Management | Interviewing Skills | Threat Modeling | SQL | Incident Response | Cyber Attacks | Computer Security Incident Management | Python Programming | Network Security | Cyber Threat Intelligence | Network Protocols | Linux | Debugging | Cloud Security | Vulnerability Assessments | Threat Management | Intrusion Detection and Prevention | Cybersecurity

View less skills

Details to know

Shareable certificate
Add to your LinkedIn profile

Recently updated!
May 2025

Taught in English
12 languages available

See how employees at top companies are mastering in-demand skills

Learn more about Coursera for Business

Prepare for a career as a Cyber Security Analyst

- Receive professional-level training from Google
- Demonstrate your technical proficiency
- Earn an employer-recognized certificate from Google

Explore this role →

₹1,257,500
median entry-level salary[1]

2,373
job openings in India[1]

Professional Certificate - 9 course series ✦ New AI skills

Prepare for a new career in the high-growth field of cybersecurity, no degree or experience required. Get professional training designed and delivered by subject matter experts at Google and have the opportunity to connect with top employers.

Organizations must continuously protect themselves and the people they serve from cyber-related

During the 8 courses in this certificate program, you'll learn from cybersecurity experts at Google and gain in-demand skills that prepare you for entry-level roles like cybersecurity analyst, security operations center (SOC) analyst, and more. At under 10 hours per week, you can complete the certificate in less than 6 months.

Upon completion of the certificate, you can directly apply for jobs with Google and over 150 U.S. employers, including American Express, Deloitte, Colgate-Palmolive, Mandiant (now part of Google Cloud), T-Mobile, and Walmart.

The Google Cybersecurity Certificate helps prepare you for the CompTIA Security+ exam, the industry leading certification for cybersecurity roles. You'll earn a dual credential when you complete both.

Applied Learning Project

This program includes 170 hours of instruction and hundreds of practice-based assessments and activities that simulate real-world cybersecurity scenarios that are critical for success in the workplace. Through a mix of videos, assessments, and hands-on labs, you'll become familiar with the cybersecurity tools, platforms, and skills required for an entry-level job.

Skills you'll gain will include: Python, Linux, SQL, Security Information and Event Management (SIEM) tools, Intrusion Detection Systems (IDS), communication, collaboration, analysis, problem solving and more!

Additionally, each course includes portfolio activities through which you'll showcase examples of cybersecurity skills that you can share with potential employers. Acquire concrete skills that top employers are hiring for right now.

Read less

Foundations of Cybersecurity

Course 1 • 10 hours

Course details

What you'll learn

- Recognize core skills and knowledge needed to become a cybersecurity analyst
- Identify how security attacks impact business operations
- Explain security ethics
- Identify common tools used by cybersecurity analysts

Cybersecurity | Security Information and Event Management (SIEM)

Security Management | Security Controls | Network Analysis | Cyber Attacks | Ethical Standards And Conduct | Cyber Security Strategy | Incident Response | Cyber Risk | Information Assurance | Data Ethics

Play It Safe: Manage Security Risks

Course 2 • 9 hours

Connect and Protect: Networks an...

Course 3 • 11 hours

Course details

What you'll learn

- Define the types of networks and components of networks
- Illustrate how data is sent and received over a network
- Understand how to secure a network against intrusion tactics
- Describe system hardening techniques

Skills you'll gain

Network Security | Hardening | Network Architecture | TCP/IP | Virtual Private Networks (VPN) | Firewall | Network Protocols | Vulnerability Assessments | Cloud Security | Cloud Computing | Computer Networking | Network Infrastructure | Intrusion Detection and Prevention

Tools of the Trade: Linux and SQL

Course 4 • 23 hours

What you'll learn

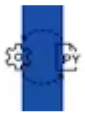
- ✓ Classify assets
- ✓ Analyze an attack surface to find risks and vulnerabilities
- ✓ Identify threats, such as social engineering, malware and web-based exploits
- ✓ Summarize the threat modeling process

Skills you'll gain

Authorization (Computing) | Security Controls | Vulnerability Assessments | Vulnerability Management | Authentications | Cybersecurity | Threat Modeling | Cyber Threat Intelligence | Threat Detection | Threat Management | NIST 800-53 | Identity and Access Management | Data Security | Risk Management Framework | Cyber Risk | Security Strategy | Cyber Attacks | Cryptography | Malware Protection | MITRE ATT&CK Framework

Sound the Alarm: Detection and Response

Course 6 • 18 hours



Automate Cybersecurity Tasks wit…

Course 7 • 24 hours

Course details

What you'll learn

- ✓ Explain how the Python programming language is used in cybersecurity
- ✓ Create new, user-defined Python functions
- ✓ Use regular expressions to extract information from text

- ✓ Practice debugging code

Skills you'll gain

Google

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Why people choose Coursera for their career

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Learner since 2018

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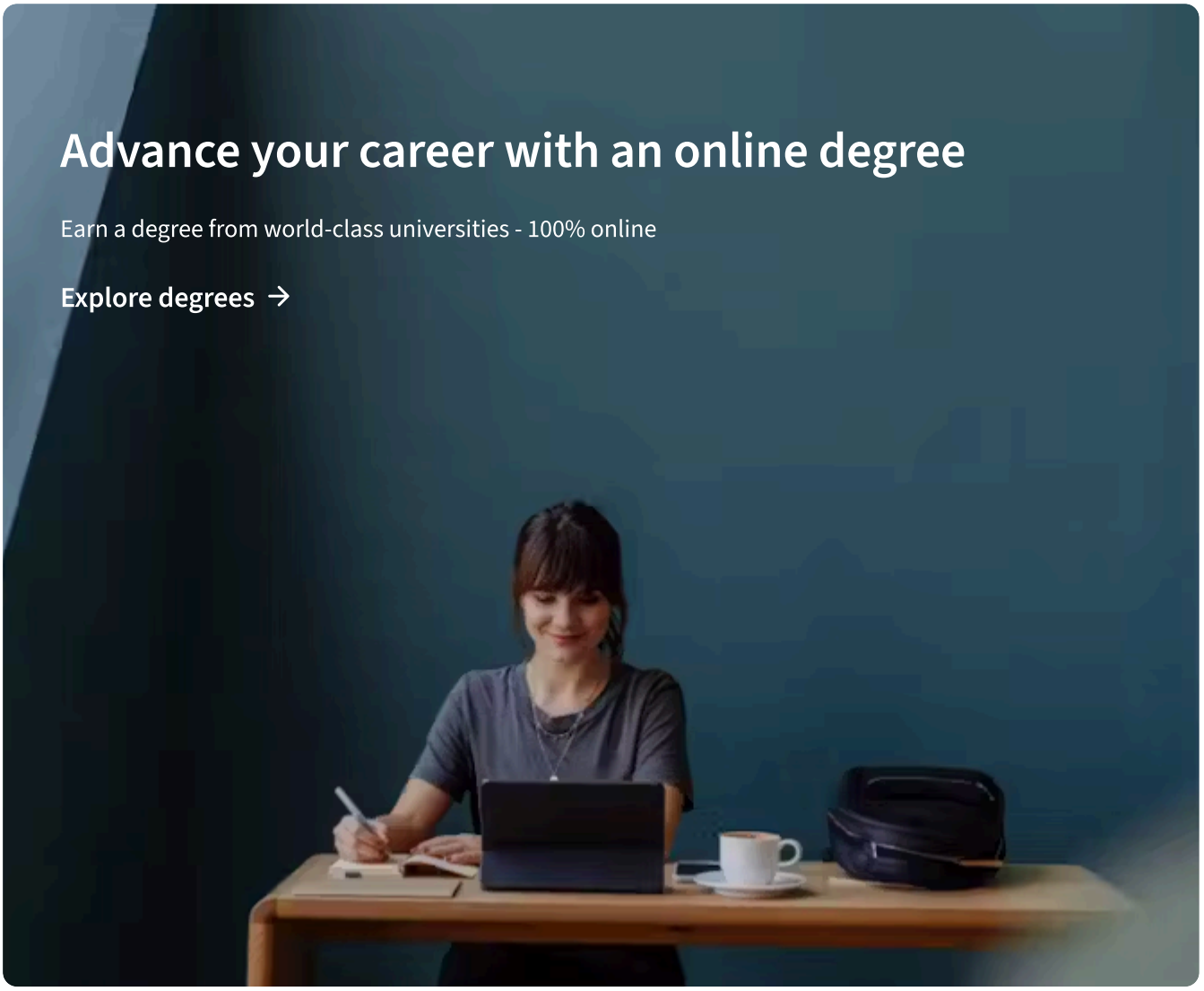
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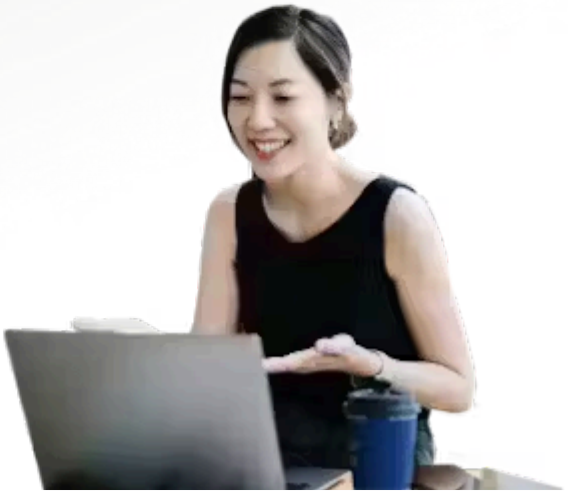

Frequently asked questions

What is cybersecurity?

What kind of companies hire cybersecurity professionals?

Companies of all sizes hire cybersecurity professionals across a variety of industries, including e-commerce, finance, healthcare, technology, and government.

Will completing the certificate prepare me for the CompTIA Security+ exam?

How much does this certificate cost?

Is this program offered in other languages?

What background knowledge is necessary?

Do I need to take the courses in a specific order?

Which jobs does this program prepare for?

What will I be able to do upon completing the professional certificate?

What resources will be available to help with the job search process?

Why did Google create this program?

Can I get college credit for taking the Cybersecurity Certificate?

Does the Google Cybersecurity Certificate include AI content?

Is this course really 100% online? Do I need to attend any classes in person?

Can I just enroll in a single course?

Show less

More questions

Visit the learner help center

[1] Median salary and job opening data are sourced from Lightcast™ Job Postings Report.
Content Creator, Machine Learning Engineer and Salesforce Development Representative (1/1/2024 - 31/12/2024)
All other job roles (1/11/2024 - 1/11/2025)
[2] Positive career outcome (e.g., new job, promotion, or raise) within six months of completion. Based on program graduate survey, United States 2022.

Skills

Artificial Intelligence (AI)

Cybersecurity

Data Analytics

Digital Marketing

English Speaking

Generative AI (GenAI)

Microsoft Excel

Microsoft Power BI

Project Management

Python

Certificates & Programs

Google Cybersecurity Certificate

Google Data Analytics Certificate

Google IT Support Certificate

Google Project Management Certificate

Google UX Design Certificate

IBM Data Analyst Certificate

IBM Data Science Certificate

Machine Learning Certificate

Industries & Careers

Business

Computer Science

Data Science

Education & Teaching

Engineering

Finance

Healthcare

Human Resources (HR)

Information Technology (IT)

Marketing

Career Resources

Career Aptitude Test

Examples of Strengths and Weaknesses for Job Interviews

High-Income Skills to Learn

How Does Cryptocurrency Work?

How to Highlight Duplicates in Google Sheets

How to Learn Artificial Intelligence

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Microsoft Power BI Data Analyst Certificate

UI / UX Design Certificate

Preparing for the PMP Certification

Signs You Will Get the Job After an Interview

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