

# CYBERSECURITY LEVEL 1 CERTIFICATION

Industry-Relevant
Programming Certification
for High School

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# **Why Offer Certifications?**

By helping set students up for success, CodeHS Certifications provide verification that your students have learned industry-relevant skills from a secure, comprehensive exam.

Building skill credibility for students and future employers will also boost your district's computer science program.



Verify Industry-Relevant Skills & Knowledge



Develop a
Professional
Online Footprint



Build Skill
Credibility for
Future
Employers

## **Certification Journey**

# Complete a CodeHS course. STEP 2 Practice for the exam. Pass exam, tell the world!



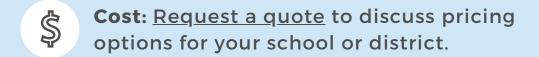
# **Cybersecurity Level 1 Certification Exam**

The CodeHS Cybersecurity Level 1 Certification Exam proves students' foundational understanding of Cybersecurity topics and concepts. This certification can serve as a stepping stone for students' career aspirations and help build programming skill credibility.

#### **Exam Details**









## **Prerequisites**

There are no prerequisites to take the CodeHS Cybersecurity Level 1
Exam. We recommend that students take the CodeHS <u>Introduction to Cybersecurity</u> course to fully prepare for the exam.



## **Topics & Concepts Covered**

#### **Cybersecurity Essentials**

- Ransomware
- Phishing
- Internet of Things
- The CIA Triad
- Cyber Ethics
- Credit and Copyright
- Legal vs. Illegal Hacking

#### **System Administration**

- Operating Systems
- Software & Software
   Licenses
- Application Security
- Browsers
- System Administration
- Command Line System

#### **IT Concepts**

- Internet Addresses
- IPv4 and IPv6
- DNS Hierarchy
- Routing
- Packets and Protocols

#### Cryptography

- Basic Cryptography
- Code Breaking
- Brute Force
- Frequency Analysis
- Caesar Cipher
- Vigenere Cipher

# Digital Safety and Data Security

- Digital Footprint
- Cyberbullying
- Internet Safety
- Clients and Servers
- SQL Queries
- SQL Injection
- Developer Tools

#### **IT Infrastructure**

- Internal Components
- Peripheral Devices
- Network Devices
- Storage Options
- Network Options
- Network Communication
- Network Management





# How to Bring Certifications to Your School

# **REQUEST A QUOTE**

codehs.com/learnmore

#### **Questions?**

Contact the CodeHS Team at hello@codehs.com.

