



Cyber Security PROGRAM OUTLINE

PROGRAM DETAILS

The Cybersecurity Diploma at **A1 Global College** equips students with the foundational and advanced skills necessary to thrive in the ever-evolving field of cybersecurity. This career-focused program prepares students to assess cyber threats, implement preventive measures, and respond to security incidents using industry-standard tools and practices.

With hands-on training in real-time environments, students will explore topics including ethical hacking, cyber laws, encryption techniques, penetration testing, and database security. The program is ideal for those aiming to work in IT security roles in **private corporations, government organizations, and tech startups**

ADMISSION REQUIREMENTS

- Grade 12 Diploma or equivalent GED
- Minimum 18 years and older
- English Language Proficiency

Note: For the most accurate and up-to-date admission requirements, we recommend contacting our campus directly or visiting our website. Meeting minimum requirements does not guarantee admission, as program seats may be limited.

EMPLOYMENT PROFILE

Graduates of the **Cybersecurity Diploma Program** equipped with the advanced technical skills necessary to protect critical digital assets, defend against cyberattacks, and maintain the integrity of IT infrastructures across diverse industries. Their key responsibilities include **monitoring and securing networks, detecting and mitigating cyber threats, and conducting comprehensive risk assessments and security audits**. They are proficient in implementing cryptographic protocols, managing database and network security systems, and developing and enforcing robust information security policies. Graduates are prepared to execute **penetration testing, incident response management**, and ensure regulatory compliance.

CAREER OPPORTUNITIES

Graduates are qualified for a range of entry-level to mid-level positions in Cybersecurity, such as:

- Cybersecurity Risk Analyst
- Informatics Security Analyst
- Informatics Security Consultant
- Informatics Systems Business Analyst
- Data Protection officer
- Network Security Engineer
- IT Compliance Officer

\$60k - \$109k	Annual Salary
\$29/hr - \$53/hr	Hourly Rate

**According to jobbank.gc.ca (NOC 21220)*

PROGRAM DURATION

Total program hours	640 Hours
Total program length	32 Weeks

PROGRAM OUTLINE

The **Cybersecurity Diploma Program** at A1 Global College provides comprehensive training in protecting computer systems, networks, and data from cyber threats—an essential skillset in today's digital world.

Here are the program's core focus areas:

- **Cybersecurity Fundamentals & Network Security**
- **Threat Detection & Risk Assessment**
- **Ethical Hacking & Penetration Testing**
- **Firewall, VPN, and IDS/IPS Configuration**
- **Cryptography & Information Security Policies**
- **Security Compliance & Cyber Laws**
- **Digital Forensics & Incident Response**

Gain real-world experience through **hands-on labs, simulation-based learning**, and exposure to industry-standard tools. The Cybersecurity Program at A1 Global College prepares you to protect organizations against evolving cyber threats with confidence and technical expertise.

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PROGRAM SUMMARY

This table will display a summary of total Instructional hours, delivery format and percentage weight for every type of learning entered in the List of Subjects. The Ministry, Career College and any subject or education assessors may refer to this section for a general understanding of the components of the program.

Type of Learning	Total Instruction Hours	Delivery Format	% Weight
Theory	520.00	Online	81.25
Practical	120.00	Online	18.75
Total Program Hours	640.00		100

List of subjects with the time allocation for each

#	Subject	Instruction Hours	Delivery Format
1	Introduction to Cybersecurity	70.00	Online
2	Research for Security	70.00	Online
3	Database Fundamentals for Security	70.00	Online
4	Information Security Principles & Policies	70.00	Online
5	Cryptography & Network Security	70.00	Online
6	Cyber Laws & Ethical Hacking	70.00	Online

7	Penetration Testing & Wi-Fi Security	70.00	Online
8	Server & Client-Side Security	70.00	Online
9	Regulatory Compliance & Risk Management	80.00	Online
	Total Hours	640.00	

**The course content may be changed as per Industry standards*

Please Note:

- The courses listed above may not be presented in the order that they appear in this outline.
- Textbooks and supplies necessary for the program, including all required certifications, are included in the fee structure.
- A segment of the program may utilize online and/or computer-assisted learning courses or a combination of various learning methods, including instructor moderation and online-delivery, to enhance the learning experience.
- To support continuous program development and updates, the College reserves the right to make amendments or modifications are needed. These revisions may include adjustments to content, updates to the curriculum, changes in course titles, materials, schedules, distribution of course content, sequencing of course delivery, instructor or course substitutions, and updates to technology software, or equipment. Any changes made are effective upon implementation.