



**Edison College Canada**  
SINCE 1973  
LEARN TODAY, LEAD TOMORROW

# Cybersecurity

## Diploma

71 Weeks Program





**Program Duration:**  
Theory: 71 weeks / 1420 hours



**Delivery Methods:**  
In-Class or Online



**Campus Location:**  
Victoria, BC

## Program Description

This Cybersecurity Diploma Program is designed to prepare students for a dynamic world of cybersecurity. Our reliance on the internet and smart devices has grown exponentially in modern times. This dependence on technology has created a high demand for skilled cybersecurity professionals to safeguard digital assets and protect organizations from evolving cyber threats.

From financial transactions to personal communications and even intellectual property, sensitive information is increasingly stored and shared online.

## Career Opportunities

- Cybersecurity Analyst
- Cyber Security Specialist
- Cybersecurity Consultant
- Cyber Security Advisor
- Information Security Specialist

## Estimated Salary

Cybersecurity specialists typically earn in the range of \$62,400 to \$150,000 annually, according to the Canadian Job Bank. The salary of cybersecurity professionals mainly depends on their experience and the province where they work. On an hourly basis, cybersecurity analysts earn in the range of \$30.00 to \$72.12 per hour. Salaries vary from province to province, but generally median salaries are higher in Alberta and Ontario compared to other provinces and territories.

### Cybersecurity Specialists

Salary Range

**\$62,400 - \$150,000**



# Admission Requirements

**High school graduate or equivalent or mature student status (19 years or older before starting the program).**

**Meet one of the following English language Proficiency requirements:**

Minimum Grade 10 English plus a minimum of three years of full-time secondary education (Grades 8–12) completed in English in a country where English is one of the principal languages of instruction, or

Overall minimum IELTS (Academic) score of 5.5, or

Overall minimum TOEFL score of 46 (only TOEFL iBT is accepted), or

Overall minimum CAEL score of 40, or overall minimum CELPIP score of listening 6, reading 5, and writing 5, or overall minimum Duolingo English Test (DET) score of 95.

**The Accuplacer assessment may be accepted only under the following conditions:**

English is the program's language of instruction, and the applicant is a mature domestic student facing barriers, and the applicant cannot access their educational records or cannot provide sufficient evidence of secondary or post-secondary education.

The applicant provides attestation that they have completed at least three years of full-time instruction in English in a country where English is one of the principal languages.

The applicant provides a signed self-declaration and minimum overall reading of 235 and writing of 235, and WritePlacer: 4.





## Courses

### **Active Directory Infrastructure**

This course teaches students how to configure and manage Active Directory in a Windows Server environment. Students will learn to manage users, groups, and permissions and implement security measures within an enterprise network.

### **Cisco Networking—Routing & Switching**

This course provides hands-on training with Cisco routers and switches, covering routing protocols, VLANs, and network security. Students will learn to configure and troubleshoot Cisco devices in various networking environments.

### **Cloud computing**

This course offers students a deep dive into the critical intersection of Cloud Technologies and cybersecurity. Covering fundamental cloud computing models, security architecture, identity management, data encryption, network security, incident response, and compliance considerations, this course ensures that students gain both theoretical and practical skills. By exploring emerging trends and innovations in cloud security, students will be well prepared to address the evolving challenges and opportunities presented by cloud-based infrastructure.

### **Computer Science Cryptology**

This course teaches students how to secure mobile devices in enterprise environments. Students will learn to implement encryption, manage secure access, and apply security policies to protect sensitive data on mobile devices.

### **Cybersecurity Fundamentals**

This course introduces students to basic cybersecurity concepts, including threat identification, risk management, and defense strategies. Students will learn how to protect networks and systems from cyberattacks using security technologies and best practices.

## **Ethical Hacking**

This course is designed to immerse students in the principles of ethical hacking, providing them with the knowledge and skills required to identify and mitigate vulnerabilities within computer systems. In the rapidly evolving landscape of cybersecurity, ethical hacking is a critical discipline that empowers professionals to assess and fortify the security of digital assets. Students will explore various hacking techniques, penetration testing methodologies, and vulnerability assessment, all within a legal and ethical framework. The course emphasizes hands-on labs and real-world scenarios, allowing students to apply their learning in simulated environments.

## **Internet communication protocols**

This course covers the fundamentals of internet communication, including protocols such as TCP/IP, DNS, and HTTP. Students will learn how data is transmitted over networks and how to troubleshoot connectivity issues.

## **Introduction to Computers**

This course offers a comprehensive introduction to the fundamental components of computers, focusing on both desktop and laptop hardware. Through hands-on practice in disassembling, reassembling, and configuring computer systems, students will develop essential technical skills. The course also covers motherboard configurations, enhancing students' ability to install, maintain, and troubleshoot computer systems effectively.

## **Linux Fundamentals**

This course introduces students to the Linux operating system, covering topics such as installation, file management, and system administration. Students will learn essential Linux commands and tools to manage and troubleshoot Linux environments.

## **Microsoft Visio**

This course teaches students how to use Microsoft Visio to create professional diagrams, flowcharts, and organizational charts. Students will learn how to visually represent data and systems for effective technical communication and project management.

## **Mobile Device Security**

This course teaches students how to secure mobile devices in enterprise environments. Students will learn to implement encryption, manage secure access, and apply security policies to protect sensitive data on mobile devices.

## **Network +**

This course prepares students for the CompTIA Network+ certification by covering networking concepts, infrastructure, and security. Students will learn to design, implement, and troubleshoot wired and wireless networks in professional settings.

## **Network and Computer Security**

This course teaches students how to implement security measures for protecting networks and computer systems. Students will learn about firewalls, intrusion detection systems, and secure network design to prevent unauthorized access and cyber threats.

## **PC Computer Service: Hardware**

This course introduces students to various hardware components that make up a computer system. Students develop a systematic approach to troubleshooting hardware.

### **PC Computer Service: Software**

This course covers the installation, configuration, and troubleshooting of operating systems, software, and application software packages. Students will also learn about the security issues involving software installations.

### **Resume Writing & Professional Skills**

Students work with a professional career counsellor to develop and optimize a professional resume to put forward for employers. Additional support in job searching, interview techniques, and other career transition skills is offered to ensure students have the best possible work prospects.

### **Scripting and Programming**

This course introduces students to Python programming, focusing on logic structures, automation, and data handling. Students will learn how to write scripts to automate IT tasks and solve practical problems in cybersecurity and system administration.

### **Securing Windows Server**

This course teaches students how to secure Windows Server infrastructures. Students will learn to implement firewalls, encryption, and other security measures to protect servers from cyber threats and ensure compliance with security standards.

### **Security Analysis**

This course covers techniques for analyzing and responding to security incidents. Students will learn to perform risk assessments, identify vulnerabilities, and develop strategies to mitigate security threats in enterprise environments.

### **Windows Client Operating System**

This course teaches students how to install, configure, and manage the Windows 10 operating system. Students will learn key tasks such as managing user accounts, configuring security settings, and troubleshooting common issues.

### **Windows Server-Networking**

This course focuses on networking features in Windows Server 2019. Students will learn to configure DNS, DHCP, IP addressing, and VPNs, ensuring efficient and secure network connectivity in enterprise environments.

### **Windows Server- Installation and Storage**

This course covers the installation, configuration, and storage of Windows Server 2019. Students will learn how to set up server roles, manage storage solutions, and implement best practices for maintaining server infrastructures.

### **Windows Devices Configuration**

This course focuses on configuring Windows devices in enterprise environments. Students will learn to set up devices, apply security policies, and manage system performance to ensure efficient and secure operations.



**Edison College Canada**  
SINCE 1973  
LEARN TODAY, LEAD TOMORROW