



68 Weeks/1400 Hours

Course details



COMPUTER NETWORK & CYBER SECURITY ENGINEER



STUDENT SUPPORT COMMUNITY



Employment opportunities and salary

- ✓ Information Security Analyst
- ✓ Chief Information Security Officer
- ✓ Cryptographer
- ✓ Forensics Expert
- ✓ Security Administrator
- ✓ Security Architect
- ✓ Lead Software Security Engineer
- ✓ Penetration Tester

C\$50.00/ hour

Avg. Base Hourly
Rate (CAD)

Source: jobbank.gc.ca
And [payscale.com](https://www.payscale.com)

C\$84,008 year

Avg. Base Salary
(CAD)

TECHNOLOGY FACULTY

- ✓ Network Administration
- ✓ Technical Support
- ✓ Help desk Technician
- ✓ Network Operator

NOC codes:

- Computer Network Technician: 2281
- Support Technician: 2282
- Cyber security Engineer :2171



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COMPUTER NETWORK & CYBER SECURITY ENGINEER



Program Summary

Every single organization – regardless of sector or industry – uses computers and computing systems every day to function, provide services, and store information. Keeping such systems and data safe from unintended intrusions or intentional harm is crucial in today's world. Computer Network and Cyber Security Engineer practicum diploma program is designed to teach you to understand and identify risks and make computing and networking systems secure.



Learning Focus

- Administering Windows Server
- Mobile Application Security
- Business Communications
- Cloud Infrastructure
- Ethical Hacking
- CCNA Security
- Comptia A+
- Practicum
- Security+
- Comptia Network+
- Cisco Network Administration CCNA
- CCNP
- CISSP



What do cyber security engineer do?

Cybersecurity engineers are responsible for protecting the networks and systems of an organization against threats from adversaries in cyberspace. Cybersecurity engineers must be able to troubleshoot, identify unauthorized access, and offer solutions regarding an organization's system and network as it relates to cybersecurity. Some of the functions of the cyber security engineer include:

- Performing assessments and penetration testing
- Development and implementation of secure network solutions
- Architecting and engineering trusted systems into secure systems
- Managing audit/intrusion and security technology systems

COMPUTER NETWORK & CYBER SECURITY ENGINEER



Administering Windows Server

This course provides students with the knowledge and skills to configure and monitor servers. Students will have an opportunity to configure and administrate file server resource manager, DNS zones & records, configure network policy server and service authentication, and maintain active directory and configure account policies.

Hours
160

Cisco Network Administration CCNA

This subject introduces students the concept of internetworks. The subject provides an understanding of communication protocols TCP/IP and subnetting. In addition, it introduces students to CISCO's operating system, network fundamentals, LAN switching technologies, IPv4 and IPv6 routing technologies, WAN technologies, infrastructure services, infrastructure security, and infrastructure management.

80

Implementing and maintaining CISCO IP Networks –CCNP

This subject will introduce students to the concepts of Cisco Certified Network Professional (CCNP) Routing and Switching. Students will gain the knowledge to configure and optimize a routing domain using OSPF, EIGRP, BGP, PBR, IP SLA and configure redistribution when needed. It also includes the configuration of highly secure routing solutions to support branch offices and mobile workers.

160

Compitia A+

This subject addresses the competencies required for an entry-level IT professional in the PC Technician, Help Desk, and Network Support fields. Students will explore the skills required to assemble components, install, configure and maintain devices, PCs and software, understand the basics of networking and security/forensics, properly and safely diagnose, resolve and document common hardware and software issues while applying troubleshooting skills.

140

Compitia Security +

In this subject, students will learn how to handle threats, attacks, and vulnerabilities using industry-standard tools and technologies, while understanding the role of architecture and design. From everyday tasks like identity and access management to complex topics like risk management and cryptography, this subject will demonstrate how to consolidate the students' knowledge base.

60

Installing and configuring windows server

This course provides students with the knowledge and skills to install, configure, and maintain a Microsoft Windows Server. Students will explore the concepts of how to setup configuration and manage storage, perform security network printing, network connectivity, and remote system management. This will be the introductory course for windows SERVER administration.

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Cloud Infrastructure (Amazon cloud)

This subject will guide students through the practices, patterns, and requirements for creating infrastructure that meets company needs, and develop skills to be capable of managing the full life cycle of cloud applications.

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Certified information systems security Professional

This subject will guide students through the practices, patterns, and requirements for creating infrastructure that meets company needs, and develop skills to be capable of managing the full life cycle of cloud applications.

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Ethical Hacking

This course introduces students to the world of ethical hacking, which is a form of legal hacking done with the permission of an organization to help increase its network security. The subject looks specifically at how attackers target networks, what tools attackers use, and how these techniques can be used by ethical hackers.

Hours

120

Compia Network+

This course will prepare students to work in a network environment along with preparing students to write the Network+ Certification exam offered through CompTIA. The course offers students the opportunity to prepare for the exam while gaining knowledge in networking technologies in various server environments, including Windows 2008 Server and key TCP/IP and networking concepts. The Network+ course provides a comprehensive look at many vendor neutral networking technologies with a focus on topologies, protocols, network implementation, wireless networks, the OSI Model and critical network support concepts.

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Installing and configuring windows 10

This subject introduces students to the applications used by professionals who typically administer and support Windows 10 devices in corporate, Windows Server domain-based environments with managed access to the Internet and cloud services.

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Mobile Application Security

This subject will introduce students to the security measures required in social apps running on mobile platforms. Students will be exposed to the techniques required to design and code apps with security as part of the process and not an afterthought.

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Job search strategies

This course offers students a thorough understanding of the skills required in order to obtain meaningful employment after graduation. Students will develop these skills through numerous practical assignments, in-class discussions, job searches procedures, and mock interviews.

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Practicum

Placement provides students with an opportunity to practice their new skills in a work setting. While on placement, students gain experience in a wide range of skills, become more self-confident and in some cases receive offers of employment from the placement site. This subject is the practical portion of the program. Students are required to complete all practicum hours.

120

CCNA Security

This subject introduces students to the knowledge and skills required to secure a Cisco network, to develop a security infrastructure, recognize threats and vulnerabilities to networks, and mitigate security threats. In addition, this subject will walk the student through the step-by-step process to be able to identify core security technologies, the installation, troubleshooting and monitoring of network devices.

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Business Communications

This course has been designed to bring the real world of international business communications into the classroom. Students have the opportunity to improve their English communications skills by using a task based approach with role-play, discussions, group assignments, and case studies.

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Contact us

<https://computek.edu/>
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