



L.A.U.N.C.H

Career Empowerment Conference

Sept 7, 2024

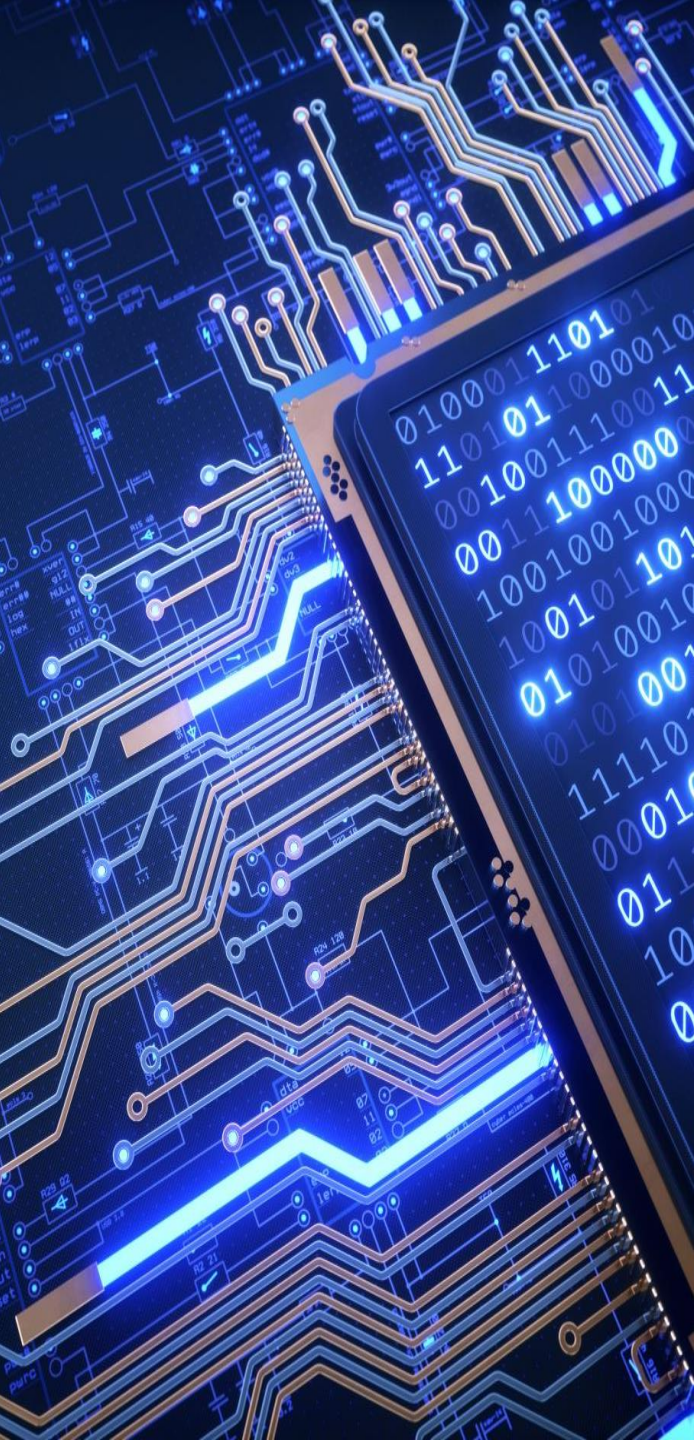
Info Session

Starting a Career In Cybersecurity

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Session Expectation

- Understand the Cybersecurity Profession
- Identify various cybersecurity career paths
- Know key requirements to enter and sustain a successful career
- Explore Cybersecurity career journey map
- Identify key Resources for effective career – Resume writing, certifications and professional bodies
- Identify common career pitfalls and mitigation strategies
- Examine compensations in Cybersecurity
- Discuss Career Action Plan

Cybersecurity Profession- Overview

- ❑ Cybersecurity has emerged as a **critical field** within the realm of information technology, **focusing on protecting digital assets, networks, and sensitive information from cyber threats.**
- ❑ The demand for cybersecurity professionals has surged in recent years, **driven by the exponential growth in cyber threats and the increasing reliance on digital platforms.**
- ❑ Organizations across industries, from finance to healthcare and government sectors, are actively seeking skilled professionals who can mitigate risks and respond effectively to security incidents



Why Cybersecurity

- Diverse - Something for everyone.
- High need for skilled cybersecurity professionals.
- Opportunities to solve problems and develop unique solutions.
- Above average compensation
- Job flexibility

Career Path in Cybersecurity

Cybersecurity Analyst - Technical or Business

Mobile & Network Security Analyst

Security Operations Center (SOC) Engineer

Cybersecurity Consultant

Web Application Security Analyst

Incident Response and Forensics Analyst

Threat & Vulnerability Management Analyst

Penetration Tester / Ethical Hacker

Governance Risk & Compliance Analyst

Cybersecurity Engineer

Cybersecurity Architect

Cybersecurity Manager

Cybersecurity Leadership BISO / CISO / CSO

Top Cybersecurity Career Paths

| Career Path: | Purpose: | Job Titles: |
|--------------|--|---|
| Engineering | Digital infrastructure security systems creation, implementation, and maintenance | <ul style="list-style-type: none"> • Security Engineer • Application Security Engineer • Cloud Security Engineer • Network Security Engineer |
| Testing | System, application, and network evaluation for potential security vulnerabilities | <ul style="list-style-type: none"> • Penetration Tester • Vulnerability Assessor • Security Auditor |
| Analysis | Data, system, and pattern examination to understand and mitigate cyber threats | <ul style="list-style-type: none"> • Cybersecurity Analyst • Threat Intelligence Analyst • Security Operations Center Analyst • Intrusion Analyst |
| Response | Security breach first responders to minimize damage, eradicate threats, and restore operations | <ul style="list-style-type: none"> • Incident Responder • Cybersecurity Incident Manager • Forensic Analyst |
| Auditing | IT systems and operations evaluation for regulatory compliance and best practices | <ul style="list-style-type: none"> • Cybersecurity Auditor • IT Compliance Auditor • Security Control Assessor |

Key requirements

- Strong **understanding of IT fundamentals**
- Critical thinking skills,
- Problem-solving abilities,
- Soft Skills (Communication, change management) and
- a commitment to continuous learning and development.

It shouldn't start with certification !

Critical skills for successful career

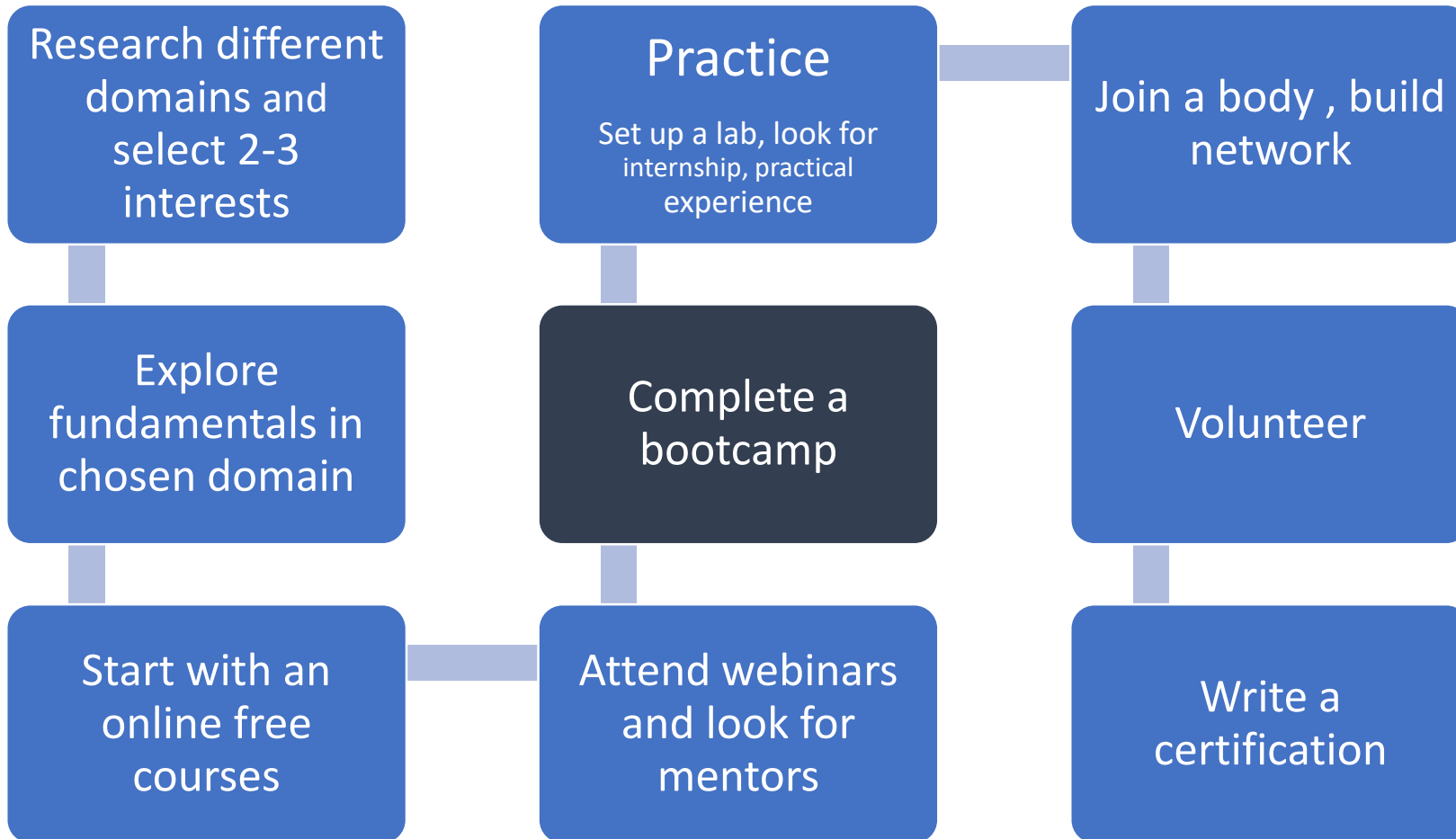
Skills we generally would see in these positions include:

- Ability to lead complex initiatives and diverse groups of people
- Ability to solve complex problems under pressure
- Decisiveness
- Understand the business
- Ability to communicate clearly
- Proactiveness and willingness to learn
- Ability to work through adversity
- Foundational technical skillset

Technical knowledge to enrich your competence include:

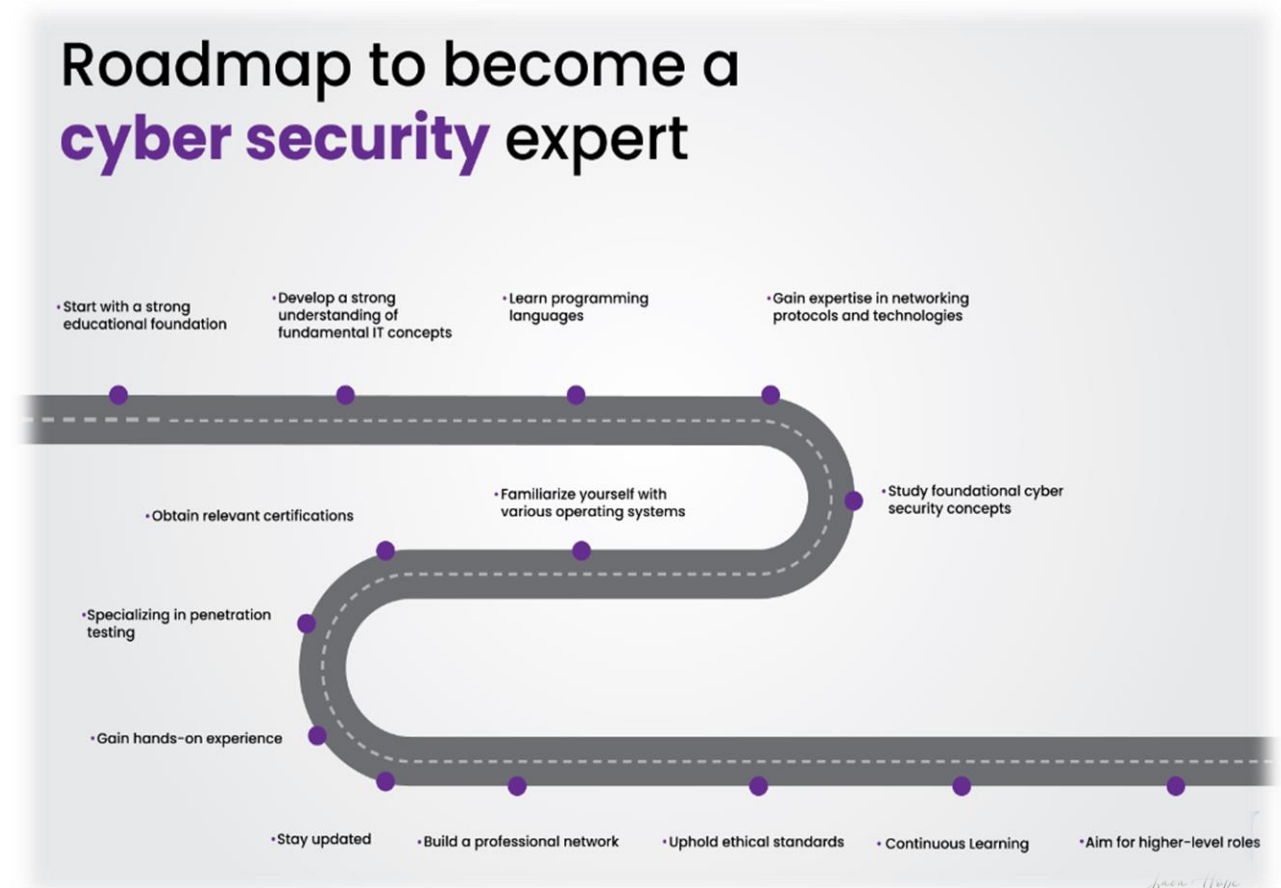
- Security Principles
- Risk Analysis
- IT infrastructure /Cloud
- Network Protocols
- Intrusion Detection
- Scripting
- Programming Skills
- Data Analysis
- Ethical Hacking

Starting with no Experience



Suggested Career Roadmap

- ❑ Entry-Level Positions
- ❑ Specialization and Certifications
- ❑ Advanced Roles and Leadership
- ❑ Continual Growth and Learning

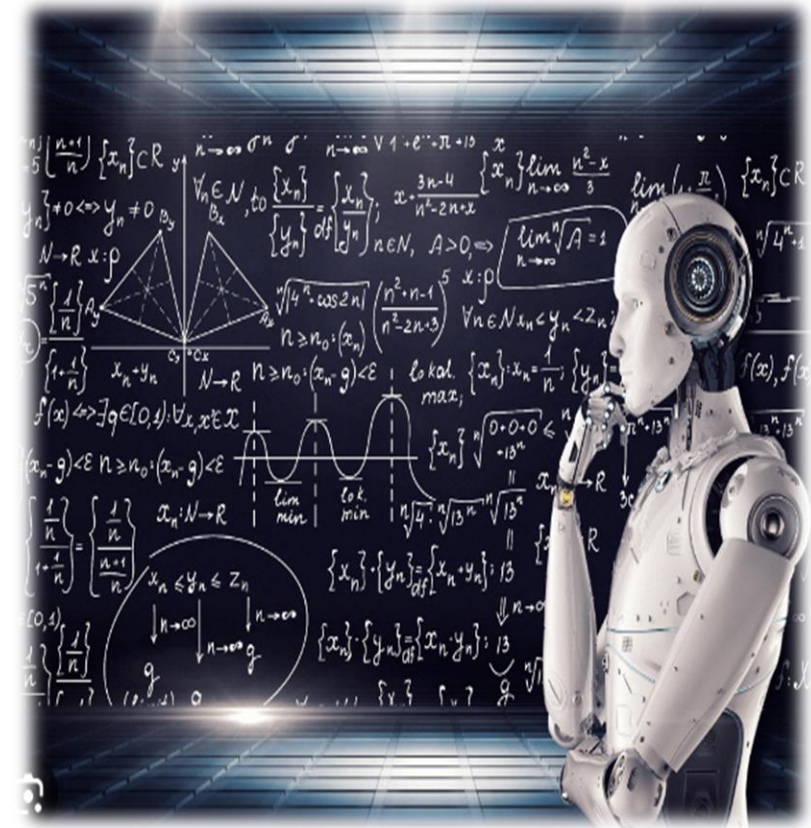


Common Career Pitfalls

- Lack of continuous Learning
- Neglecting Soft Skills
- Compliance Awareness And Training
- Neglecting current security news and trends
- Not thinking about your customer

Mitigating Strategy for Pitfalls

- ❑ **Be a lifelong learner**
 - Regularly participating in training programs, workshops and industry events
- ❑ **Invest in Soft skills**
 - Invest time in improving communication, leadership and problem-solving skills
- ❑ **Be aware of the threat, regulatory and technology trends**
 - Stay informed about legal and regulatory requirements through courses, certifications and internal training programs
- ❑ **Think Business /organizational goals**
 - Cybersecurity is about solving problem, understand the problem and the problem owner. Know more about your customer, current challenges etc



Relevant Professional bodies

- Participate as part of career development
- Best community to develop good networking skill and build professional stature
- Make sure it is relevant to your chosen path

Common ones include:

- ISC2** (Information System Security Certification Consortium)
- ISACA** (Information Systems Audit and Control Association)
- CompTIA** (The Computing Technology Industry Association)
- IIBA** (Cybersecurity Stream)

The logo for CompTIA, featuring the word "CompTIA" in a red, sans-serif font with a registered trademark symbol.The logo for ISACA, featuring a stylized "ISACA" acronym in blue and green on the left, and the full name "ISACA" in blue on the right, with a registered trademark symbol.

Relevant Cybersecurity Certification.

Depends on your career path, narrow your focus, align to one or 2 domains, look at the job market, be strategic

General – Experienced – Certification include:

- Certified Information Systems Security Professional (CISSP)[®]
- Certified Information Systems Auditor (CISA)[®]
- Certified Ethical Hacker (CEH)
- Certified Information Security Manager (CISM)
- CompTIA Advanced Security Practitioner (CASP+)
- GIAC Security Essentials Certification (GSEC)

Entry – Certification include:

- CompTIA Security+
- IIBA CCA
- CC - Certified in Cybersecurity ISC2
- GIAC Information Security Fundamentals (GISF)
- Systems Security Certified Practitioner (SSCP)



Salaries in Cybersecurity

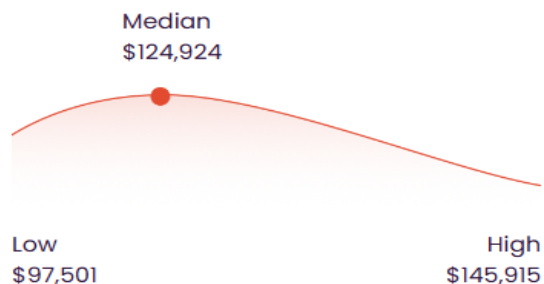


How much does a Cyber security make in Canada?

\$124,924 / Annual

Based on 2764 salaries

The average **cyber security** salary in **Canada** is **\$124,924** per year or **\$64.06** per hour. Entry-level positions start at **\$97,501** per year, while most experienced workers make up to **\$145,915** per year.



Cyber security: salaries per region

| Region | Salary |
|------------------|-----------|
| Quebec | \$133,530 |
| New Brunswick | \$128,133 |
| Saskatchewan | \$125,000 |
| Nova Scotia | \$124,956 |
| Ontario | \$124,205 |
| British Columbia | \$124,035 |
| Manitoba | \$116,508 |
| Alberta | \$113,000 |

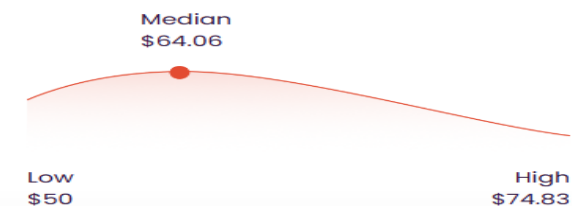
Based on 329 salaries

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| Job Title | Range | Average |
|------------------------------------|-------------------|------------|
| Cyber Security Analyst | C\$53k - C\$103k | C\$71,700 |
| Security Analyst | C\$51k - C\$90k | C\$69,067 |
| Information Security Analyst | C\$58k - C\$108k | C\$74,091 |
| Security Engineer | C\$69k - C\$134k | C\$92,678 |
| Information Security Manager | C\$80k - C\$131k | C\$108,320 |
| Security Architect, IT | C\$89k - C\$142k | C\$115,889 |
| Cyber Security Engineer | C\$64k - C\$126k | C\$98,699 |
| Information Security Specialist | C\$64k - C\$107k | C\$85,292 |
| Senior Security Consultant | C\$72k - C\$129k | C\$98,078 |
| Chief Information Security Officer | C\$112k - C\$243k | C\$157,501 |

Resume Tips for Effective Positioning

- Tailoring your resume
- Showcase your technical Skills
- Highlighting your achievements



Stand out!

Key Resources

Job Boards

- Indeed, CyberSecJobs, LinkedIn, Teamblind and Dice

Mentoring References: Seek guidance and advice from experienced cybersecurity professionals through mentorship programs, networking events, and online forums

Associations: Join industry-focused associations such as ISACA, (ISC)², and CompTIA to access networking opportunities, resources, and professional development support.

Learning Platforms: Springboard, TryhackMe, LinkedIn Learning, Cvbrary, Coursera, Udemy, edX, Pluralsight, YouTube videos



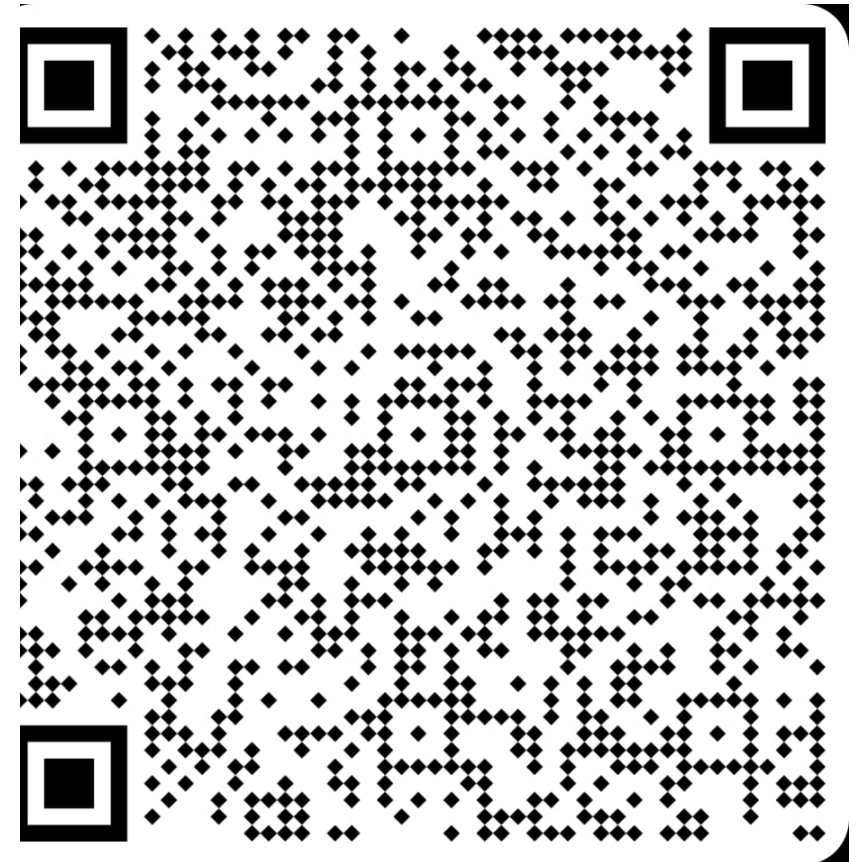
Career Progression – Action Plan

- ❑ **Goal Setting:** Define short-term and long-term career goals in cybersecurity, including skill development, certifications, and role aspirations
- ❑ **Implementation Steps:** Create a timeline with specific actions to achieve the set goals, such as enrolling in training programs or networking events
- ❑ **Monitoring Progress:** Regularly assess and track progress towards career goals, evaluate successes and challenges, and adjust strategies as needed



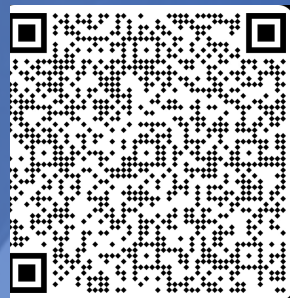
Valcon Inc IIBA CCA Bootcamp

- Learn core concepts of Cybersecurity – relevant for all career paths
- Understand the role of Business Analyst in a Cybersecurity settings
- Understand the risks organization's face in implementing and operating security solutions
- 4-5 sessions of online class with certified professional as instructors
- Prepare for the IIBA CCA certification with more than 300 practice questions





Q&A



Career & Salary In Cybersecurity – Appendix

Security Career Roadmap 2022 | Aligned with NICE Cybersecurity Workforce Framework Work Roles: <https://niccs.cisa.gov/workforce-development/cyber-security-workforce-framework/workroles>



<https://cybersn.com/45-cybersecurity-roles/>

Internal

<https://pauljerimy.com/it-career-roadmap/>