CANADIAN COLLEGE OF TECHNOLOGY AND BUSINESS



Software Quality Assurance Engineering with Co-op

In this multi-disciplinary program, learn the specific automation technologies and quality assurance and testing methodologies used to support software teams throughout the entire software development process.

Key Facts

Campus
Vancouver

Qualification
Post-Secondary Diploma

Start Dates
Jan, May, Sep

Program Highlights

This program will empower you with a profound knowledge of the Software Development Lifecycle (SDLC) and will enable you to enter the field and be well integrated into any software development team as a Software Quality Assurance Engineer.

A glimpse into what you will learn...

- The Software Development Lifecycle Model (SDLC)
- The Software Testing Lifecycle Model (STLC)
- Waterfall and Agile project management methodologies
- The Scrum framework
- Creating a test strategy and plan, identifying test types, and writing test cases
- Requirements definition, analysis, and traceability
- Defect reporting, triage, and issue tracking
- Object-oriented programming
- Environment management with cloud services and Linux
- Database design and SQL
- Building and software automation testing framework
- DevOps build automation and orchestration tools

And much more...

Why study this program?

Fast-Track in a great IT career...

Software Quality Assurance is a low barrier to entry role into a software development team and is great for anyone new to IT that wants to fast-track their way into a great career.

Learn a wide variety of technologies in this broad-spectrum program...

This program covers a broad range of technologies across many related IT disciplines that will enable you, upon graduation of this program, to have a very diverse set of employable technical skillsets.

Empowering employment and professional development training...

Our specialized employment preparation training will enhance your communication skills, tailor you profile, build your technical portfolio and provide you with the industry insights that will enable you to secure the best possible job offer upon entering the industry.

Student Journey

This program consists of **47 weeks of scheduled program breaks.** The CCTB Career Development Centre will assist **international students** in securing a paid employment position related to their program field of study for students to work during the scheduled break periods. This will enable international students to accumulate the required technical work experience hours required to be eligible to apply for the **BCPNP Tech** program. Students are eligible to work full time during scheduled breaks.



	Academic	CO-OP + Scheduled Breaks	Graduation
International	45 Weeks	92 Weeks	137 Weeks
Domestic	45 Weeks	51 Weeks	96 Weeks

*Scheduled breaks for domestic students may be optional.

Please see proposed schedule **here**.

Courses

1. Information Systems Management
2. Introduction to Linux Systems Administration
3. Relational Database Systems and SQL
4. Cloud Solution Architecture Level 1
5. Cloud Solution Architecture Level 2
6. Object Oriented Programming Level 1
7. Object Oriented Programming Level 2
8. Design Patterns, Data Structures and Algorithms
9. Software Test Automation Level 1
10. Software Test Automation Level 2
11. Introduction to Web Services and API Testing
12. Introduction to Performance Testing
13. DevOps Infrastructure Level 1
14. DevOps Infrastructure Level 2
15. Employment Preparation Training

Co-op Experience

Gain the practical industry experience through our Career Development Centre's professional network, enabling you to become a sought-after industry candidate. Our CO-OP work experience placement is a guaranteed paid position representing 50% of the total program duration. Students will get the opportunity to apply their newly acquired skills within the industry through a guaranteed paid work experience placement opportunity.

Career Opportunities

- Software Testing Engineer
- Application Architect
- Computer Software Engineer
- Software Design Engineer
- Software Design Verification Engineer
- Software Designer
- Software System Integration Engineer
- Software Technical Architect

Learning Outcomes

Upon the completion of this program, graduates will be able to develop complete software test automation frameworks for testing web application user-interfaces for software products under development. This multidisciplinary program will have train students to be a highly effective engineer within development teams having the expertise in deploying environments, data management, build orchestration, and automated infrastructure provisioning and configuration.

> **"During this program students may get up to 21 months of work experience which helps meet the criteria to be eligible for BC PNP tech and Federal Skilled Worker."**
>
> - Subbalakhmi A. Pillai (RCIC)
> Registered Canadian Immigration Consultant. Helios Immigration Services.

For more information about BC PNP tech or Federal Skilled Worker immigration streams, visit:

T & C's Apply

Admissions Requirements

- Good command of English language*.
- High school diploma or equivalent from an approved government institution of applicant's home country, or applicant is minimum 19 years of age.

For non-native speakers:

- Successful completion of CCTB EAP (English for Academic Purposes) Level 4 or
- Have the required IELTS 5.5 score or equivalent or
- Pass the CCTB English Assessment (Written onsite or online with exam proctor)

*For more information on English language requirements, please see our Language Proficiency Assessment Policy.

Apply now!

Canadian College of Technology & Business
626 W Pender St, Vancouver, BC V6B 1V9, Canada
DLI: O134304821852
info@canadianctb.ca
@CanadianCTB
www.canadianctb.ca