

Steel Detailing Technician

CAD and BIM Technologies

Working in the steel construction industry, steel detailers work with engineers and architects to draw the essential assets to infrastructures such as roads, bridges, schools, stadiums, commercial and high-rise buildings. Drawings for steel-framed structures divide the structure into components that can be transported from the fabrication plant for assembly at the construction site. Computer Aided Drafting (CAD) and 3D Building Information Modelling (BIM) are being increasingly used to create these drawings for steel fabrication companies, and within steel detailing offices. Through project-based learning, students will become proficient in the latest CAD and BIM software, and the industry standards for steel detailing.

This is one of the three drafting programs available at VCC. The final seven months of the program introduces the unique technical drawing realm of structural steel detailing. Drawings of a variety of steel-framed structures are broken down into components that can be transported from the fabrication plant for assembly at the erection site. During the last four months, structural and geometric calculations are used extensively in problem solving. Projects use simulated real world structures. The use of the Tekla 3D modelling software package will be included during the final three months of the program.

Program information

- Credential: Certificate or Diploma (with additional specialty)
- Length: 10 months, full-time
- Start: September

Program admission requirements

- Grade 12 graduation, or equivalent (applicants who have completed Drafting 11 and 12 in high school can apply for direct entry into Term 2 of the program)
- Apprenticeship and Workplace Math 11 or Pre-calculus 11

Applicants whose first language is other than English, who have not completed English 098/099 and are presenting foreign documents equivalent to Grade 12 must successfully complete an English language assessment which includes a Canadian Language Benchmark of:

- Listening 8
- Speaking 7
- Reading 8
- Writing 7 or better

More information

Contact Program Advising:
By phone: 604.871.7000, option 2
In person: 1155 E. Broadway, or
200-block Dunsmuir at Hamilton

For the most up-to-date program info, check vcc.ca.