



CONESTOGA
CO-OPERATIVE EDUCATION

HIGHER TALENT. HIRE CONESTOGA.

Structural Steel Management and Detailing (Graduate Certificate)

This intensive 16-month graduate certificate program builds on a prior degree or diploma to prepare students with specialized training in the detailing, supply, fabrication, coordination, management, and installation of steel structures.

The curriculum is directly related to industry standards and working conditions with challenging projects encompassing design development using CAD and Building Information Modelling (BIM), building code requirements, specifications, product sourcing, estimating, and project management. The learning environment is founded on project-based learning principles and includes discussion groups, seminars, field trips and practical assignments in which students also develop detailed analytical and communication skills necessary for working in the structural steel industry.

This program is sponsored by the Steel Plus Network (SPN) and the Canadian Institute for Steel Construction (CISC).

Co-op Work Study Sequence

	Fall (Sept. - Dec.)	Winter (Jan. - Apr.)	Spring (May - Aug.)
Year 1		Classes	Classes
Year 2	Work Term	Classes	

Work Term Capabilities

- Work well within a team
- Interpret construction documents with guidance of a supervisor
- Register the relationship between structural steel and other building components
- Calculate a bill of materials and determine cost estimates
- Interpret CAD and BIM drawings
- Create detailing drawings using specialized industry software

- Apply statics and strength of materials to estimate/verify loading conditions and path
- Recognize and apply many industry codes, rules and industry standards of practice

Sample Job Titles

- Steel Detailer
- Structural Steel Drafter-Detailer
- Estimator
- Coordinator
- Production Manager – Steel Fabrication
- Production Manager - Structural Metal and Platework Fabricator
- Purchasing and Procurement Specialist, Structural Steel
- Inspector, Structural Steel
- Steel Project Manager
- Project Manager

Employer Benefits

The benefits of hiring co-op students include:

- Cost-effective temporary employees for peak periods of activity, seasonal variations in workload or short-term projects
- Bright, motivated, fresh talent
- Opportunity to explore new employment positions before making a long-range commitment
- Effective long-term recruitment strategy:
 - Attract top talent by building your brand on campus
 - Evaluate candidates before hiring as full-time employees
 - Familiarize prospective full-time employees with your organization, decreasing orientation and training when hiring graduates

Financial Benefits:

- Receive up to \$3,000 per student per work term by qualifying for the Ontario Co-operative Education Tax Credit (CETC)
- For additional financial benefits available, see conestogac.on.ca/employers/recruitment-services

Other Co-op Programs Available

Conestoga has highly regarded co-op and apprenticeship programs in a variety of additional fields of study, including **Business, Community Services, Engineering, Hospitality, Media and Design, Information Technology and Trades**

Contact Us Today

Dedicated co-op staff provide helpful services and support

Ken Buitenhuis, Employer Relations Consultant
kbuitenhuis@conestogac.on.ca
519-748-5220, extension 3216