

Blasting Techniques

Program Location:	Lindsay
Program Code:	SBL
Co-ordinator:	William Smith
Credential:	Ontario College Certificate
Start Date:	September 04, 2012
Tuition Fees:	\$3,788.97 per semester. Tuition and fees subject to change.



The two-semester Blasting Techniques Ontario College Certificate is the only program of its kind in Canada. This is a highly practical, hands-on program, in a rapidly growing industry.

Program Highlights

Fascinated by the explosives industry? Do you like to work outdoors, and in challenging environments? If so, you may be interested in exploring a career as a blaster. With our well-developed connections with industry and our specialized resources and drilling compound, students get the hands-on training necessary for their career in blasting.

- Blasters fill blast holes with explosives and detonate them to dislodge coal, ore, rock, or aggregate, or to demolish structures.
- Blasters are employed by mining, quarrying, and construction, and drilling and blasting companies, as well as in the special effects industry.
- You will focus on three types of explosive cuts, and incorporate a wide range of skills in science, mathematics, and communications.
- Courses include explosives, blasthole drilling, blasting theory, blast design, geology, safety and accident prevention, and environmental issues.

You will spend much of your time in labs, field classes and field assignments, and refining your skills in our state-of-the-art drilling and blasting training centre.

Note: Students are subject to a criminal records check as required by field placement site management. Please contact the program coordinator if there is a concern about this records check.

Why Choose Fleming

Fleming's Blasting Techniques certificate has several advantages upon completion:

- You will have common core training as a Surface Miner as required by the Ministry of Labour to enter most blasting sites.
- Upon graduation, you will have the option of certifying with the International Society of Explosives Engineers (ISEE) in Quarrying, Basic Construction Blasting, and the Fundamentals of Blasting (Level One).
- Another option upon graduation is to expand your career and job opportunities by continuing at Fleming College in the Resources Drilling and Blasting Technician diploma program, with direct entry into the program's second semester.

Is this You?

- An enjoyment of working outdoors/ hands-on work
- Good motor skills
- Physical health
- Flexibility (particularly regarding hours of work)
- Communication/interpersonal skills
- Mechanical aptitude
- Ability to plan and organize activities
- Problem solving skills
- Ability to work independently
- Computer skills

Career Opportunities

Job opportunities are very good across many sectors and several provinces, including Ontario. With many blasters nearing retirement, there is an urgent need to replace these skilled individuals. Job titles include construction blaster, openpit blaster, and surface mining blaster. Blasters work closely with drillers and often perform both drilling and blasting activities. The annual salary range for a blaster/driller is \$35,000 - \$62,000, depending upon experience and certification. Fully qualified surface blasters make up to \$40.00 per hour. Blasting assistants earn \$18 - \$25 per hour at the entry level. There are good opportunities for career advancement in this field with training and experience. Specialized areas of blasting such as underground blasting have higher pay scales.

Minimum Admission Requirements

OSSD with the majority of credits at the Workplace (E) level, including English. When Workplace (E) is the minimum course level for admission, (C) and (U/C) courses are also accepted.

Mature Students

If you are 19 years of age or older before classes start, and you do not possess an OSSD, you can write the Canadian Adult Achievement Test to assess your eligibility for admission.

Curriculum for Blasting Techniques

Semester 1

Code	Course Name	Hours
APST 80	Blasting Applications Field Camp I	30
GEOL 49	Blasting Fundamentals	45
GEOL 50	Common Core: Surface Miner	30
COMM 129	Communications for Blasting Techniques I	30
MATH 85	Mathematics and Trade Calculations for Blasting	60
GEOL 51	Product Knowledge for Blasting	15
LAWS 174	Safety and Legislation for Blasting	45
NATR 8	Environmental Leadership	45

Semester 2

Code	Course Name	Hours
APST 81	Blasting Applications Field Camp II	30
COMM 130	Communications for Blasting Techniques II	30
GEOL 54	Construction Blasting and Quarrying	45
NATR 93	Environmental Impact of Blasting	30
GEOL 53	Fundamentals of Blasting II: Blast Design and Layout	45
MTRL 38	Governance and Safe Practices	45
GEOL 60	Rock Studies I	21
GEOL 62	Rock Studies II (SBL)	21
GENED	General Education Elective	

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