

# Resources Drilling and Blasting

<b>Program Locations:</b>	Lindsay
<b>Program Code:</b>	RDB
<b>Coordinator:</b>	Steve Wilkinson
<b>Credential:</b>	Ontario College Diploma
<b>Start Dates:</b>	September 08, 2015 · January 11, 2016
<b>Tuition Fees:</b>	\$1,940.84 per semester. Tuition and fees subject to change.



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**From day one in the two-year Resources Drilling and Blasting program, you will learn hands-on the theory and skills needed to succeed in this exciting field.**

## Program Highlights

When you work in Resources Drilling and Blasting, you'll encounter variety and challenges every day. You will use problem solving, analytical and creative thinking skills. You've got to think on your feet, and use your ingenuity. A full 80 per cent of the program consists of practical learning sessions - most of it taking place in our impressive, on-campus Parnham Training Centre and off-campus in the field.

- You'll work on a full range of drilling equipment in our five service bays.
- Four specially equipped classrooms/labs in the facility will further enhance your drilling education, with everything from a drilling simulator to hands-on drilling activities.
- Classroom sessions are complemented by hands-on drilling labs, including work in local quarries.
- The program will also cover an introduction to the geothermal industry.
- Global work opportunities - many graduates have opportunities to work around the world.
- Our grads are exempt from taking the mandatory Ontario Ministry of the Environment 10-day Well Constructed Course. Ontario Regulation 903 requires successful completion of this training for new well technicians.

## Why Choose Fleming

Fleming's Resources Drilling and Blasting program is the only one of its kind in the world! It offers a rare combination of technical training and hands-on experience. As a graduate, you'll be well prepared to work in the field. Due to our strong **connections with the industry**, and our geographical location, the program is well positioned to place graduates throughout North America. Employers from around the world seek out graduates of the Resources Drilling and Blasting program. They know grads have a good foundation of theory and practice, and have excellent transferrable skills to draw upon for any challenge in the workplace.

## **Common First Semester**

Students in our School's diploma programs take the same courses for first semester after choosing and being accepted into one of our programs. This common focus exposes you to a variety of career options and other programs. You will have the freedom to explore and obtain a multidisciplinary perspective, while you acquire a base of knowledge and fundamental skills.

Although students are accepted into a specific program for their first semester, the common first semester allows you to change direction if you find another program or career area is more appealing. Once you have successfully completed the common first semester, you can enter the program of your choice in second semester, subject to enrolment capacity.

Thomas Luloff is the Coordinator for Common First Semester.

## **Work Experience**

Following your first semester, you'll begin to explore specialized training in drilling and blasting. As mentioned, you'll spend most of your time in labs or field classes, putting your education to work and refining your skills in our state-of-the-art Drilling and Blasting training centre. You'll also take part in field assignments in local quarries and job-related activities. Practical experience in semester four is subject to a criminal records check as required by field placement site management.

## **Is this You?**

You've got to love working outside, enjoy hands-on work, be willing to operate equipment, and be independently minded. Opportunities exist for both men and women - more brains than brawn is required to be competent in the field. Some of the personality traits and skills essential to your success include:

- good motor skills, physical health
- flexibility (particularly regarding hours of work)
- interpersonal skills
- analytical and creative thinking
- mechanical aptitude
- ability to lift 40 kilograms
- ability to stand for 12 hours
- ability to read and understand safety labels

## **Career Opportunities**

Faculty report that the requests for graduates by industry often exceed the number of students completing this program. Upon graduation you'll find yourself in positions such as driller or helper working in rural, remote or populated areas. You could work anywhere in North America. At least ten global industries are open to you for potential employment, including: Geotechnical, Environmental, Blast-hole drilling, Blasting, Mineral Exploration and Mining (surface and underground), Horizontal Direction Drilling, Geothermal, Water Wells Construction Drilling, and Oil and Gas industries.

You can move up the ladder to own a business, or work in sales, tech support, or management with larger companies. Your potential employment is excellent as a graduate of our one-of-a-kind program. The average starting annual income is \$52,000.00 but you could make much more than that within a few years after graduation. Even as a summer student employee, it is possible to earn \$20,000.00 to \$30,000.00.

## Minimum Admission Requirements

OSSD with the majority of credits at the College (C) and Open (O) level, including:

- 2 College (C) English courses (Grade 11 or Grade 12)
- 2 College (C) Math courses (Grade 11 or Grade 12)

When (C) is the minimum course level for admission, (U) or (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. Additional testing or academic upgrading may be necessary to meet specific course requirements for this program.

**\* Students starting in January are required to attend classes over the summer semester.**

## Related Programs

Other programs to consider at Fleming if you're interested in working with machinery include Blasting Techniques, Earth Resources Technician or Heavy Equipment Techniques.

## Additional Costs

Plan to spend about \$1,300 in the first year and \$100 in the second year for books, supplies, safety equipment and camps. Approximate costs for extra courses which are optional but recommended: WHIMIS \$30 online; Fall Arrest \$105; Transportation of Dangerous Goods \$108; Arc Welding \$130; First Aid \$135 (Peterborough); H2S \$200; DZ License \$995.

## Mandatory Equipment Students Need to Provide /Purchase

- CSA Approved Reflective Stripping Vest or CSA Approved Reflective Stripping Jacket
- Overalls or Coveralls (recommended orange with CSA Approved Reflective Stripping)
- Work Gloves
- CSA Approved 8" (minimum) Work Boots
- Pocket Note Book
- Pencil (not pen)
- Watch or other Time Keeping Device

## Mandatory Equipment Supplied by College (costs included in student's Tuition/Fees payments)

- CSA Approved Hard Hat Class E (supplied in Common First Semester)
- Folding Jack Knife (supplied in Common First Semester)
- Tape Measure (supplied in Common First Semester)
- Safety Glasses (supplied in second semester)
- Hearing Protection (supplied in second semester)

## Transfer Agreements

We are committed to providing students and graduates with flexible options to get maximum recognition of their college studies. Through joint programs and transfer agreements with the following universities, you can apply the learning you acquire at Fleming College to earn a related degree in less time, and at less cost.

- Athabasca University
- University of New Brunswick
- University of Ontario Institute of Technology

## Curriculum for Resources Drilling and Blasting

### Semester 1

Code	Course Name	Hours
COMM 44	College Communications for Environmental Science	45
ECOS 13	Ecosystem Skills	60
GEOM 36	Geospatial Techniques	45
MATH 63	Applied Mathematics in Natural Resource Sciences	52
ENVR 20	Ecology and Environment	60
NATR 8	Skills for Stewardship and Sustainability	45

### Semester 2

Code	Course Name	Hours
COMM 34	Technical Reporting	45
GEOL 16	Geotechnical Drilling	45
GEOL 73	Air Rotary Drilling	45
MECH 50	Rig Maintenance and Repair	45
NATR 41	Soil Studies I	21
COMP 461	Data Management for Environmental and Natural Resource Sciences	45
NATR 85	Soil Studies II (Resources Drilling & Blasting)	21
GENED	General Education Elective	

## Semester 3

<b>Code</b>	<b>Course Name</b>	<b>Hours</b>
APST 26	Field Operations	45
GEOL 8	Environmental Drilling	45
GEOL 18	Horizontal Directional Drilling	45
GEOL 74	Well Construction	60
MECH 9	Drilling Pump Systems	45
MECH 32	Hydraulics	45
COMM 181	Career Mapping & Development	38
GENED	General Education Elective	

## Semester 4

<b>Code</b>	<b>Course Name</b>	<b>Hours</b>
GEOL 72	Construction Drilling	45
GEOL 6	Diamond Core Drilling	45
GEOL 46	Blasthole Drilling	30
GEOL 47	Blasting	15
MECH 3	Advanced Hydraulics and Rig Maintenance	45
APST 115	Quarry Camp - Drilling	40

*Every attempt is made to ensure the accuracy of the information on our website and in our publications. The College reserves the right to modify or cancel any course, program, fee, timetable, or campus location at any time.*