

NEW!

Geothermal Drilling Fundamentals Certificate

PROGRAM INFORMATION

Program Name: Geothermal Drilling Fundamentals Certificate	Location: Lindsay	
Program Length: May 3 to August 19, 2010	Training Hours: 30 hours weekly, 5 days per week, 16 weeks	
Tuition: \$8,372.79 total (subject to change)	Books: approx. \$200.00	Personal Safety Gear: approx. \$600.00
<p>Admission Requirements:</p> <p>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.</p> <p>If you are a mature student 19 years of age or older before classes start, and you do not possess an OSSD, you can write the Canadian Adult Achievement Test or a Test of Workplace Essential Skills to assess your eligibility for admission.</p> <p>Those currently working in the drilling field are also suitable candidates for admission to the program, or may take individual course modules to further their knowledge and experience for geothermal applications.</p>		

PROGRAM OVERVIEW:

Geothermal drillers work in the growing field of alternative energy resources. Geothermal energy heating and cooling systems function by circulating water through a series of loops for heating and cooling systems. Drillers are an integral part of the team that plans and installs these systems in both commercial and residential applications. Geothermal drillers use various drilling techniques to drill the bore holes, install and fuse the loops, and seal the bore holes. The job is physically demanding and drillers must be mechanically adept, physically fit, and able to work in all kinds of weather. They also must have problem-solving skills and work well on a team.

Through this unique program, you will learn the fundamentals of this specialized field. You will be able to:

- participate in planning the installation of geothermal energy systems
- plan, drill, install loop, test, and seal a bore hole
- safely operate and maintain drilling equipment
- use drilling methodologies that provide for environmental sustainability
- adhere to all federal, provincial and municipal regulation and industry safety policies

NOTE: This program is modularized and participants can register for one or more courses individually. All courses must be completed in order to receive a certificate.

<p>CERTIFICATION:</p> <p>Fleming College Certificate of Completion</p>	<p>TO REGISTER: Continuing Education 888-269-6929</p> <p>FOR INFORMATION Catherine Staples ext. 3260 cstaples@flemingc.on.ca</p>
---	--

Geothermal Drilling Fundamentals Certificate

PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate, graduates will be able to:

1. Identify and maintain a safe and secure drilling site.
2. Participate in the planning of the installation of a geothermal energy system as the driller, understanding the role of the driller in the complete process.
3. Protect self, co-workers and the environment through the safe use, storage, and disposal of materials and operation of equipment.
4. Safely operate, maintain, and troubleshoot drilling equipment.
5. Select the best drilling technique for a site taking into consideration soil, water flow, and other geological and environmental characteristics.
6. Plan, drill, install loop, test, and seal a bore hole using the correct techniques and materials.
7. Maximize the efficiency of drilling systems and equipment safely while minimizing the environmental impact of the processes.
8. Adhere to the Federal, Provincial, Municipal and companies' policies and regulations with regard to the safe storage, transportation, and handling of materials and other drilling equipment.
9. Complete, correctly and in an efficient manner, all documentation, notes/records and reports as required in compliance with industry and government regulations and established policies and procedures.
10. Work effectively as a team member in a variety of challenging drilling environments demonstrating effective interpersonal and communication skills.
11. Adhere to drilling methodologies that provide for environmental sustainability for geothermal energy systems.

PROGRAM MODULES

Course Code	Title	Start Date	End Date	Days	Fee
NATR 70	Introduction to the Geothermal Industry	May 3	May 6	4	458.38
NATR 71	Safety in Geothermal Drilling	May 7	May 10	2	211.56
NATR 72	The Business Side of Geothermal Drilling	May 11	May 17	5	564.16
NATR 75	Construction Methods in Geothermal Drilling	May 18	May 21	4	458.38
HLTH 219	First Aid	May 25	May 26	2	282.08
NATR 74	Geology and Hydrogeology	May 27	June 9	10	1057.80
NATR 73	Customer Service in the Geothermal Industry	June 10	June 14	3	317.34
NATR 77	Air Based Flushing Media Fundamentals	June 15	June 23	7	740.46
NATR 76	Water Based Flushing Media Fundamentals	June 24	July 5	7	740.46
NATR 81	Drilling Equipment Maintenance	July 6	July 14	7	705.20
NATR 80	Site Maintenance in Geothermal Installations	July 16	July 16	2	246.82
NATR 78	Vertical Loop Installation and Testing	July 19	July 23	5	669.94
NATR 88	Utility Locates	July 26	July 26	1	147.84
NATR 79	Sealing the Borehole	July 27	August 5	7	775.72
NATR 89	Drill Equipment Hydraulics Fundamentals	August 6	August 16	7	705.20
HLTH 52	WHMIS	August 17	August 17	Morning	52.29
MTRL 19	TDG	August 17	August 17	Afternoon	91.32
MECH 187	Forklift	August 18	August 18	1	147.84
	Total Program Days			75	8372.79