ELECTRICAL TECHNIQUES

Program: ELTQ
Credential: Ontario College Certificate
Delivery: Full-time
Length: 2 Semesters
Duration: 1 Year
Effective: Fall 2019
Location: Midland, Owen Sound

Description
This program provides students with the theoretical and practical training to perform most basic electrical techniques. At the completion of the program, students are ready to apply for work as an Electrician’s helper or apprentice, or they may choose to continue their education and apply for an Electrical Engineering Technician or Technologist post-secondary program. Students will be exposed to topics including health and safety, reading of drawings, applied math, communications, electrical theory, electronic theory, installation practices, CAD and basic control system principles.

Career Opportunities
Graduates pursuing an apprenticeship may find a range of occupations in the electrical field including construction, maintenance, service and industrial. Graduates choosing to continue their education will find additional opportunities in power generation and transmission, alternate energy, green technologies and automation sectors.

Program Learning Outcomes
The graduate has reliably demonstrated the ability to:

1. identify, select, and use various electrical products, supplies, and materials commonly found in residential and commercial settings;
2. use required work site tools in a proper and safe manner;
3. use basic electrical test equipment in a proper and safe manner
4. read and interpret wiring and schematic diagrams and drawings;
5. describe the health and safety requirements of the electrical field including, and not limited to: WHIMIS, Fall Arrest, Basic First Aid/CPR, etc.;
6. use basic electrical measuring instruments to test, troubleshoot and diagnose electrical problems;
7. identify, select and organize the necessary tools and equipment in preparation for common electrical installations;
8. perform most aspects of residential wiring installations with guidance of the site electrician;
9. read and interpret the Ontario and Canadian Electrical Codes as they apply to residential installations;
10. use the correct techniques for various electrical installations;
11. discuss the advantages and disadvantages of traditional and renewable energy sources, current resources, technologies, and their limitations and a realistic appreciation of what energy sources and technologies will be in the future.

The Program Progression
Fall Intake
- Sem 1: Fall 2019
- Sem 2: Winter 2020

Admission Requirements
OSSD or equivalent with
- Grade 12 English (C or U)

Mature students, non-secondary school applicants (19 years or older), and home school applicants may also be considered for admission. Eligibility may be met by applicants who have taken equivalent courses, upgrading, completed their GED, and equivalency testing. For complete details refer to: www.georgiancollege.ca/admissions/policies-procedures/ (http://www.georgiancollege.ca/admissions/policies-procedures)

Applicants who have taken courses from a recognized and accredited post-secondary institution and/or have relevant life/learning experience may also be considered for admission; refer to the Credit Transfer Centre website for details: www.georgiancollege.ca/admissions/credit-transfer/ (http://www.georgiancollege.ca/admissions/credit-transfer)

Graduation Requirements
10 Program Courses
1 Communications Course
1 General Education Course

Graduation Eligibility
To graduate from this program, the passing weighted average for promotion through each semester, and to graduate is 60%. Additionally, a student must attain a minimum of 50% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester unless otherwise stated on the course outline.

Program Tracking

Semester 1

<table>
<thead>
<tr>
<th>Program Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRFT 1003</td>
<td>42</td>
</tr>
<tr>
<td>ELEC 1004</td>
<td>42</td>
</tr>
<tr>
<td>ELEN 1000</td>
<td>56</td>
</tr>
<tr>
<td>ENVR 1003</td>
<td>42</td>
</tr>
<tr>
<td>MATH 1018</td>
<td>42</td>
</tr>
</tbody>
</table>

Communications Course
Select 1 course from the communications list during registration. 42

Hour Total: 266

Semester 2

<table>
<thead>
<tr>
<th>Program Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC 1001</td>
<td>56</td>
</tr>
<tr>
<td>ELEC 1002</td>
<td>56</td>
</tr>
<tr>
<td>ELEC 1003</td>
<td>42</td>
</tr>
<tr>
<td>ELEC 1005</td>
<td>42</td>
</tr>
<tr>
<td>ELEC 1006</td>
<td>42</td>
</tr>
</tbody>
</table>

General Education Course
Graduation Window

Students unable to adhere to the program duration of one year (as stated above) may take a maximum of two years to complete their credential. After this time, students must be re-admitted into the program, and follow the curriculum in place at the time of re-admission.

Information contained in College documents respecting programs is correct at the time of publication. Academic content of programs and courses is revised on an ongoing basis to ensure relevance to changing educational objectives and employment market needs. The college reserves the right to add or delete programs, options, courses, timetables or campus locations subject to sufficient enrolment, and the availability of courses.