This analysis was based on the pre-determined criteria and measures listed below:

Section	Description	Measures
Student Demand	Includes an assessment of OCAS (2007 - 2011) enrolment data at other colleges in terms of mean growth rate with a specific focus on Fleming's direct competitors where appropriate (Georgian, Sheridan, Seneca and Durham)	<ul> <li>Strong = Fleming enrolment growth is outpacing system and is equal to or greater than 3%</li> <li>Moderate = Fleming enrolment growth is equivalent to system demand and is between 1.0 to 2.9%</li> </ul>
	Trends in certificate, diploma, degree, apprenticeship and continuing education (where available).  Click Below to Access Full Source Document: Fall Enrollment Trend	Weak = Fleming enrolment growth is less than the system demand and is less than 1%
Labour Market	Includes projected employment rate growth based on a consolidation of various Ontario, Canadian, and US sources including HRSDC, Sector Council Reports US Bureau of Labour Statistics, and the MTCU Employment Profile.	<ul> <li>Strong = Between 5-6 positive labour market indicators</li> <li>Moderate = Between 3-5 positive labour market indicators</li> <li>Weak = Between 1-2 or no positive labour market indicators</li> </ul>
Competitive Analysis	Includes the number of actual colleges offering the program as well as the ratio of applications to acceptances at Fleming compared to other colleges and specific comment about Fleming's direct competitors where appropriate (Georgian, Sheridan, Seneca and Durham)  Click Below to Access Full Source Document:  Fall Conversion Report	<ul> <li>Strong = Fleming conversion ratio is greater than 2 below the system</li> <li>Moderate = Fleming conversion ratio is 1 above, below or equal to the system</li> <li>Weak = Fleming conversion ratio is greater than 2 above than the system</li> </ul>
Financial Analysis	Includes a review of Contribution to Overhead (CTO) for existing programs (2010-11)  Click Below to Access Full Source Document: Costing Analysis	<ul> <li>Strong = CTO is greater than 35%</li> <li>Moderate = CTO is between 30 - 34%</li> <li>Weak = CTO is between 20 - 30%</li> <li>No Contribution = 19% or less</li> </ul>

Key Performance Indicators	Includes KPI trends from the Key Performance Indicator Summary 5 Year Historical Overview KPI Data from Reporting Years 2008-2012.  Click Below to Access Full Source Document: Key Performance Indicators	<ul> <li>Strong = Above system average in 6-7 indicators</li> <li>Moderate = Above system average in 3-5 indicators</li> <li>Weak = Above system average in 0-2 indicators.</li> </ul>
Resource Analysis	Requires school level assessment regarding space, technology, capital equipment and human resources. Recommendations from recent Program Review Reports included here	

### **Electrical Power Generation Technician (56705)**

### Student Demand<sup>1</sup> • STRONG

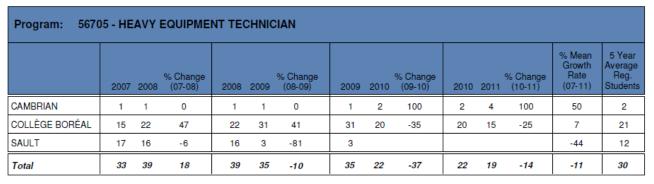
The following information consists of OCAS yearly student fall registration data as well as a mean growth rate and average student registration for each program under these categories:

#### **Diploma**

- The Electrical Power Generation Technician data is included under the MTCU Title of Heavy Equipment Technician
- Fleming only offers its course in the Winter semester, as opposed to Cambrian, Boreal and Sault who offer their program for the Fall semester

#### **Diploma**

Program: 5670	05 - HE	AVY	EQUIPME	NT TE	CHNIC	CIAN								
	2008	2009	% Change (08-09)	2009	2010	% Change (09-10)	2010	2011	% Change (10-11)	2011	2012	% Change (11-12)	% Mean Growth Rate (08-12)	5 Year Average Reg. Students
FLEMING	4	21	425	21	15	-29	15	12	-20	12	16	33	102	14
Total	4	21	425	21	15	-29	15	12	-20	12	16	33	102	14



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<sup>&</sup>lt;sup>1</sup> Registration data obtained from the Program Counts by Applicant Type Report (RPT0050P) in the OCAS Reporting and Analytics Cube December 7, 2011. Some programs/colleges may not be included because they were missing MCU codes in the OCAS dataset Prepared by Fleming Data Research (07-2012)

#### **Labour Market** STRONG

#### **Employment Ontario**<sup>2</sup>

Electrical Mechanics (NOC – 7333)

- Employment Ontario Rating (2009-2013):
  - Average
- **Education and Training** 
  - "Completion of secondary school is usually required."
  - "Completion of a four-year apprenticeship program or a combination of over four years of work experience in the trade and some college or industry courses in electrical mechanics is usually required for trade certification."
  - "Interprovincial trade certification (Red Seal) is available to qualified electric motor system technicians."

#### Demand

- "Opportunities for employment in this occupation are expected to be average over the period from 2009 to 2013. This is a small occupational group and the majority of job openings will result from the need to replace electrical mechanics who retire, leave the occupation or are promoted to higher positions."
- "Employment prospects for this occupation depend on trends affecting the manufacturing sector and on the demand for maintaining, testing and repairing electrical motors and equipment. In Ontario, the manufacturing sector has been ailing for over a decade and short term forecasts expect bleak growth."
- "This demand for maintaining, testing and repairing electrical motors and equipment varies according to the degree of use of these motors and equipment, and consumer habits. The use of electric motors and equipment has risen in the last years. This increase can be seen in the growing number of products and equipment on the market that are run by electric motors (small household appliances, industrial machines, professional and domestic tools, lawnmowers, etc), and in the greater use of these motors for existing equipment, such as automobiles. This growth has resulted in an increased need for the testing, maintenance and repair of this equipment by skilled personnel."
- "This trend is nevertheless is offset by the fact that consumers, individuals in particular, but companies as well, often prefer to replace defective motors and appliances with new ones rather than having them repaired. An increase in the number of single-person households and families in which both spouses work accents this trend."

<sup>&</sup>lt;sup>2</sup> "7333 Electrical Mechanics." *Employment Ontario*. N.p., n.d. Web. 21 July 2012. <a href="http://www.tcu.gov.on.ca/eng/labourmarket/ojf/pdf/7333\_e.pdf">http://www.tcu.gov.on.ca/eng/labourmarket/ojf/pdf/7333\_e.pdf</a>.

#### HRSDC<sup>3</sup>

Electrical Mechanics (NOC – 7333)

Job Openings (2011/2020): 10,304
Job Seekers(2011/2020): 8,710

Post-Secondary Education Graduates: 7,658 (88%)

"Based on projections and considering that labour supply and demand in this occupation were balanced, it is expected that the number of job seekers will remain sufficient to fill job openings over the 2011-2020 period. The majority of job openings will arise from retirements although the retirement rate is comparable to the average. Employment growth due to economic activity will be very weak. Expansion demand will be weaker over the 2011-2020 period than over the 2001-2010 period. This occupation experienced a certain boom during the years before the last recession because of the strong growth in the construction sector and the overall strength of the economy. However, in the coming years, the slowdown in activity in the construction industry and, more generally, the real estate market, will limit the new job openings in this occupation. In terms of supply, nearly all job seekers in this occupation will come from the school system."

#### US Bureau of Labour<sup>4</sup>

Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (SOC – 49-2095)

- Employment Growth (2010/2020): Increase 5%
  - o 23,400 (2010) to 24,600 (2020)
- "Overall employment of electrical and electronics installers and repairers is expected to grow 3
  percent from 2010 to 2020, slower than the average for all occupations."
- "Although privatization in utilities industries should improve productivity and hinder employment growth, the installation of newer, energy-efficient green technologies will spur some demand for employment."
- "Overall job opportunities should be best for applicants who have an associate's degree in
  electronics, certification, or related experience. In addition to employment growth, the need to
  replace workers who transfer to other occupations or leave the labor force will result in some
  job openings."

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<sup>&</sup>lt;sup>3</sup> "Other Mechanics (733)." *Human Resources and Skills Development Canada*. N.p., n.d. Web. 21 July 2012. <a href="http://www23.hrsdc.gc.ca/occupationsummarydetail.jsp?&tid=103">http://www23.hrsdc.gc.ca/occupationsummarydetail.jsp?&tid=103</a>.

<sup>&</sup>lt;sup>4</sup> Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, 2012-13 Edition*, Electrical and Electronics Installers and Repairers,

on the Internet at http://www.bls.gov/ooh/installation-maintenance-and-repair/electrical-and-electronics-installers-and-repairers.htm (visited *July 21, 2012*).

#### Working in Canada<sup>5</sup>

Electrical Mechanics (NOC - 7333)

o Ontario Rating: Not Available

#### • Wage Range by Region:

Location	Wage (\$/hr)							
	Low	Median	High					
Ontario	10.25	25.63	38.00					
HamiltonNiagara Peninsula Region	10.25	25.63	38.00					
Kingston - Pembroke Region	10.25	25.63	38.00					
KitchenerWaterlooBarrie Region	10.25	25.63	38.00					
London Region	13.50	18.00	38.35					
Muskoka-Kawarthas Region	10.25	25.63	38.00					
Northeast Region	10.25	25.63	38.00					
Northwest Region	N/A	N/A	N/A					
Ottawa Region	13.00	20.52	29.85					
StratfordBruce Peninsula Region	N/A	N/A	N/A					
Toronto Region	10.25	25.63	38.00					
Windsor-Sarnia Region	10.25	25.63	38.00					

Competitive Analysis <sup>6</sup>	• MODERATE

The following information consists of OCAS yearly fall application and registration data as well as a conversion ratio for each program under this category:

#### **Diploma**

- Fleming's main competition in this program is Boreal with a steady conversion ratio of 2:1 from 2009-2011
- Flemings has varied dramatically from **7:1** in 2010 to **4:1** in 2012

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<sup>&</sup>lt;sup>5</sup> "Electrical Mechanics (NOC 7333) ." *Working in Canada*. N.p., n.d. Web. 21 July 2012. <a href="http://www.workingincanada.gc.ca/report-">http://www.workingincanada.gc.ca/report-</a>

eng.do?area=8792&lang=eng&noc=7333&action=final®ionKeyword=Peterborough%2C+Ontario&s=1&source=0&titleKeyword=Peterborough%2C+Ontario&s=1&source=0&

<sup>&</sup>lt;sup>6</sup> Application data obtained from OCAS College Count Cube October 19, 2011 Registration data obtained from the Program Counts by Applicant Type Report (RPT0050P) in the OCAS Reporting and Analytics Cube December 7, 2011. Some programs/colleges may not be included because they were missing MCU codes in the OCAS dataset Prepared by Fleming Data Research (07-2012)

#### **Diploma**

	Program: 56705 - HEAVY EQUIPMENT TECHNICIAN														
			Reg. 2009	Conversion Ratio	App. 2010				Reg. 2011	Conversion Ratio	App. 2012		Conversion Ratio		
<b>→</b>	FLEMING	102	21	5:1	106	15	7:1	63	12	5:1	62	16	4:1		
	Total	102	21	5:1	106	15	7:1	63	12	5:1	62	16	4:1		

Program: 56705 - HEAVY EQUIPMENT TECHNICIAN															
		Reg. 2007	Conversion Ratio	App. 2008		Conversion Ratio	App. 2009	Reg. 2009		App. 2010		Conversion Ratio		Reg. 2011	Conversion Ratio
CAMBRIAN	40	1	40:1	56	1	56:1	43	1	43:1	35	2	18:1	46	4	12:1
COLLÈGE BORÉAL	67	15	4:1	42	22	2:1	67	31	2:1	40	20	2:1	36	15	2:1
SAULT	70	17	4:1	61	16	4:1	46	3	15:1	25			3		
Total	177	33	5:1	159	39	4:1	156	35	4:1	100	22	5:1	85	19	4:1

### **Financial Analysis**

**NO CONTRIBUTION** 

Source: Program Costing Analysis 2010/2011

• Contribution to Overhead: 17.2%

Program Weight: 1.80Funding Unit: 2.10

#### **Key Performance Indicators**

STRONG

Source: Key Performance Indicator Summary 5 Year Historical Overview KPI Data from Reporting Years 2008-2012

KPI1-Graduation Rate +18% above system
KPI2-Working +5% above system
KPI3-Working Related -1% below system
KPI4-Grad. Satisfaction +10% above system
KPI8-Student Satisfaction-Learning +17% above system
KPI9-Student Satisfaction-Teachers +15% above system
KPI11-Grad. Satisfaction-Program +12% above system

**Resource Analysis** Equipment

**Staffing** 

Space