

Electrical Engineering Technicians and Technologists

Median Yearly Income (2010): \$56, 861

This unit group is for all electrical and electronics engineering technologists and technicians: In these occupations you may work independently or provide technical support and services in the design, development, testing, production and operation of electrical and electronic equipment and systems.

WHAT YOU DO

In the oceans technology sector,

electrical engineering technicians and technologists install, commission and operate a broad range of electrical components on marine vessels, from power plants to navigation to acoustics, and from communications to monitoring systems.



WHAT YOU NEED

- Have a keen interest in technology and discovering how things work;
- Possess a good mechanical aptitude;
- Pay excellent attention to detail;
- Possess the ability to work under pressure and able to collaborate and cooperate with others as part of a team; and
- Having effective oral and written communication skills are also essential.



Electrical engineering technicians and technologists perform some or all of the following duties:

- Design, develop and test power equipment and systems, industrial process control systems, telecommunication, audiovisual systems, computers, computer systems and networks, and computer software;
- Supervise the building and testing of prototypes according to general instructions and established standards;
- Conduct or supervise the installation, commissioning, and operation of electrical equipment and systems; and
- Carry out applied research under the direction of scientists or engineers.







Electrical Engineering Technicians and **Technologists**



CAREER PATHWAY

OVERVIEW

- ❖ Work Type: Full-time and self-employed
- Area Most Likely to Work: Halifax and Cape Breton
- ❖ Most Employees Have: Nonuniversity certificate/diploma
- Certification: TechNova Right to title: Certification attests that the holder has met provincial requirements for the occupation
- ❖ Work Prospects: *Fair

Co-op Opportunities available for **Options and Opportunities** high school students to gain **Science Streams** hands-on and/or practical Oceans 11 experience that could help them connect in this career. Grade 12 diploma or equivalent **Not For Profits Post-Secondary** Techsploration (techsploration.ca/) **Educational Programs** Skills Canada (skillscanada.com) **Non-university** certificate/diploma 2 years: Tuition fees 2 - 3 years: Tuition fees approx. \$3 130/year approx. \$2000/year **Nova Scotia Community College:** Cape Breton University: Electrical Electrical Engineering Technology and Electronic Engineering This program is accredited with the Canadian Technology Accreditation Board (CTAB), a standing committee of The Canadian Council of Technicians and Technologists (CCTT). Graduates may be eligible for membership with TechNova. **NSCC: Oceans Technology Program** Advanced one year diploma for students with a

Examples of Nova Scotia companies and organizations that offer this career

- ➤ Allendale Electronics Limited
- ►Bluefin Marine and Industrial Inc.
- Canadian Seabed Research Ltd.
- Lockheed Martin Canada

Bachelor of Science or Engineering or an Engineering Diploma to further enhance skills in the oceans technology sector.

References and Resource Links

- ▶*The employment outlook over the next few years for this occupational group is "fair", which indicates the chances of a qualified individual finding work is around average
- Careers Nova Scotia (http://careers.novascotia.ca/)
- Create your career plan (careeringear.nscc.ca)
- >TechNova (http://www.technova.ca/)
- >2241 national occupation classification

(http://www5.hrsdc.gc.ca/NOC/English/NOC/2011/ProfileQuickSearch.aspx?val=2&val1=2241&val65=Electrical+technician)