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Marine Electrician

Median Yearly Income (2010): \$63, 080

This unit group is for all industrial electricians: Industrial electricians install, maintain, test, troubleshoot and repair industrial electrical equipment and associated electrical and electronic controls.

WHAT YOU DO

Marine electricians are responsible for the operation and distribution of electrical power onboard and within marine vessels and other marine devices.

In the oceans technology sector marine electricians install electrical systems, maintain, repair and troubleshoot electrical equipment onboard and within marine vessels and other marine equipment. They also work with blueprints and connect power supply circuits to radios and other electronic equipment.



Ocean Technology Council of Nova Scotia, 2015

WHAT YOU NEED

- ❖ Possess a good mechanical and electrical aptitude;
- ❖ Have a strong background in mathematics and the sciences;
- ❖ Able to perform basic calculations and read blueprints;
- ❖ Able to follow instructions and be comfortable working with tools; and
- ❖ Good eyesight, colour vision, and hand-eye coordination are also necessary.



En.wikipedia.org ,2015

Marine electricians perform some or all of the following duties:

- ❖ Read and interpret drawings, blueprints, schematics and electrical code specifications to determine layout of industrial electrical equipment installations;
- ❖ Test electrical and electronic equipment and components for continuity, current, voltage and resistance;
- ❖ Troubleshoot, maintain and repair industrial, electrical and electronic control systems and other related devices; and
- ❖ Conduct preventive maintenance programs and keep maintenance records.

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CAREER PATHWAY

OVERVIEW

- ❖ **Work Type:** Full-time
- ❖ **Area Most Likely to Work:** Across the province
- ❖ **Most Employees Have:** Non-university certificate/diploma
- ❖ **Certification:** Interprovincial Standards Red Seal Program
- ❖ **Work Prospects:** *Good

Co-op
Options and Opportunities
Science Streams
Oceans 11

← Opportunities available for high school students to gain hands-on and/or practical experience that could help them connect in this career.

Grade 12 diploma or equivalent

Post-Secondary
Educational
Programs

Non-university
certificate/diploma

Not For Profits

Techsploration (techsploration.ca/
Skills Canada (skillscanada.com)

1 year: Tuition fees approx.
\$3, 130

Nova Scotia
Community College:
Electrical Construction
and Industrial Certificate

2 years: Tuition fees
approx. \$3, 130/year

Nova Scotia
Community College:
Electrical Technician

1 year: Tuition fees approx. \$3, 130

Nova Scotia Community
College: Electrical
Construction and Industrial
Diploma

Interprovincial Standards Red Seal Program: Allows qualified tradespersons to practise the trade in any province or territory in Canada where the trade is designated without having to write further examinations

These programs are a first step towards Journeyman Certification in the Construction Electrician or Industrial Electrician trades.

Examples of Nova Scotia companies and organizations that offer this career

- Bluefin Electrical
- Canadian Armed Forces
- Fleetway Inc.

References and Resource Links

- *The employment outlook over the next few years for this occupational group is "good", which indicates the chances of a qualified individual finding work is above average
- Careers Nova Scotia (<http://careers.novascotia.ca/>)
- Create your career plan (careeringear.nsc.ca)
- International Brotherhood of Electrical Workers (<http://www.ibew.org>)
- Nova Scotia Apprenticeship Agency (www.nsapprenticeship.ca)
- 7242 national occupation classification (<http://www5.hrsdc.gc.ca/NOC/English/NOC/2011/QuickSearch.aspx?val65=7242>)