



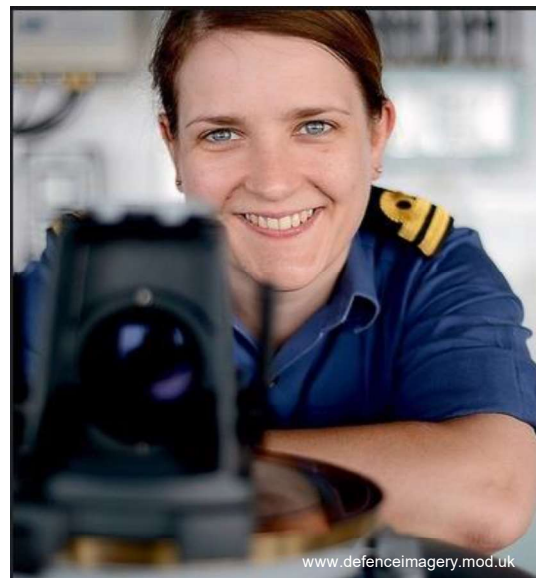
Ship's Engineering Officer

Median Yearly Income (2010): \$76, 063

This unit group is for engineering officer, water transport: Ship's engineering officers operate and maintain engines, machinery and auxiliary equipment aboard ships and other self-propelled vessels and supervise and co-ordinate the activities of engine room crews.

WHAT YOU DO

In the oceans technology sector, ship's engineering officers are responsible for the overall operation and maintenance of the vessel's propulsion machinery and auxiliary equipment. These include the electrical generation, pumping and transfer, hydraulic, refrigeration and control systems.



Ship's engineering officers perform some or all of the following duties:

WHAT YOU NEED

- ❖ Enjoy being at sea;
- ❖ A sense of responsibility and strong leadership qualities;
- ❖ In good health and meet eyesight and colour vision requirements;
- ❖ Possess excellent problem-solving and decision-making skills;
- ❖ A mechanical aptitude is helpful;
- ❖ The ability to think analytically and logically; and
- ❖ The ability to communicate and cooperate with others, as officers usually work in teams.
- ❖ Operate main engines, machinery and all auxiliary equipment aboard ships, such as boilers, steering and deck machinery, motors, pumps, generators and condensers;
- ❖ Stand engine room watch, monitoring and noting performance of engines, machinery and all auxiliary equipment;
- ❖ Inspect and conduct maintenance and emergency repairs to engines, machinery and all auxiliary equipment;
- ❖ Supervise and co-ordinate the activities of the engine room crew; and
- ❖ Maintain records and prepare reports on engine performance and failures.

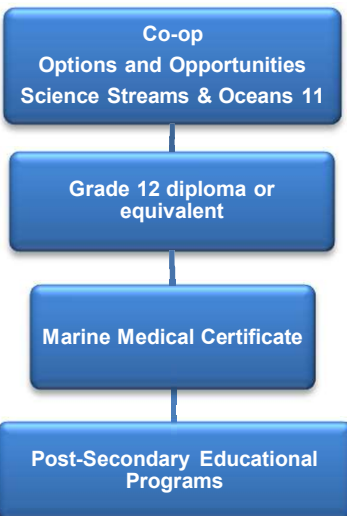
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CAREER PATHWAY

OVERVIEW

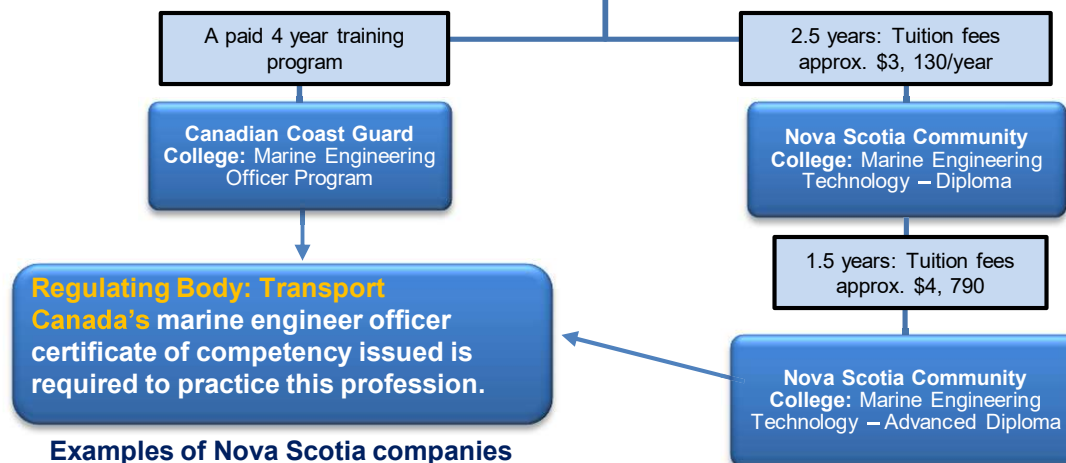
- ❖ **Work Type:** Full-time
- ❖ **Area Most Likely to Work:** Cape Breton, Halifax, South Shore
- ❖ **Most Employees Have:** Trades certificate or diploma
- ❖ **Certification:** A marine engineer officer certificate of competency issued by Transport Canada is required
- ❖ **Work Prospects:** Fair*



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

Not For Profits/Governmental Organizations

Techsploration (techsploration.ca/)
 Skills Canada (skillscanada.com)
 Federal Student Work Experience Program (jobs-emplois@gc.ca)



Examples of Nova Scotia companies and organizations that offer this career

- Canadian Armed Forces
- Canadian Coast Guard
- Irving Shipbuilding
- Fleetway Inc.

NSCC: Oceans Technology Program
 Advanced one year diploma for students with a 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.nsc.ca)
- Transport Canada (<http://www.tc.gc.ca>)
- 2274 national occupation classification (<http://www5.hrsdc.gc.ca/NOC/English/NOC/2011/QuickSearch.aspx?val65=2274>)