



Marine Engineer

Education and Training

Marine engineers require completion of a certificate course in pre-sea training as a cadet or a training course as a trainee engineer. The course for trainee engineers consists of a diploma course in marine engineering specializing in watch-keeping. Shipping companies sponsor both cadets and trainee engineers.

Nature of Work

Marine Engineers control the installation, operation and maintenance of machinery and equipment on ships and offshore structures. They work in the engine rooms of cargo ships, dredges, offshore supply and drill vessels, floating production storage and off take facilities, oil tankers, passenger ships and tugs. They need to be familiar with various types of diesel, steam and gas turbine engines.

Main Duties

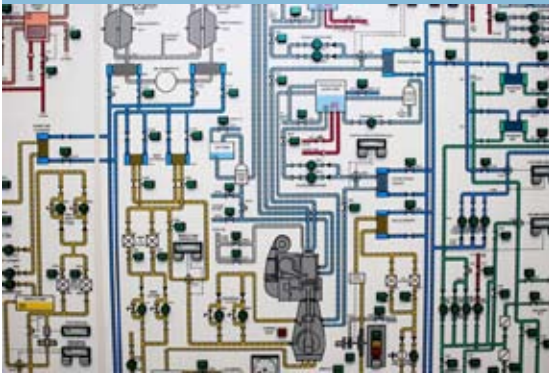
- Ensure that the main engines and associated machinery, electrical, refrigeration, air conditioning and cargo-handling equipment on ships are operating efficiently
- Monitor automatic data recording equipment and analyze data to make adjustments as required. In vessels without such equipment, manually record all necessary readings from machinery operation to make similar analysis and adjustments
- Carry out regular maintenance of the main engine and also repair defective auxiliary equipment
- Stand engine room watches at sea and in port
- Ensure that the operations of the vessel do not lead to pollution
- Maintain engine room stores and record usage of parts and equipment
- Supervise major maintenance work while the ship is in port
- Involved with the operation of small craft such as river ferries and port authority vessels

Typical Employer

Employed by many shore based industries, which provide construction, maintenance and support services for merchant vessels, and also in the engineering industries in general.

Additional Information

BCIT Marine Campus
www.bcit.ca/study/programs/274000000
 Transport Canada
www.tc.gc.ca/marinesafety/tp/TP8911/menu.htm
 Canadian Merchant Service Guild
www.cmsg-gmmc.ca
 BC Ferries
www.bcferries.com/employment/aboutcareers.html
 Georgian College
www.georgianc.on.ca/academics/programs/index.php?catid=2#2
 Martin's Marine Engineering Page
www.dieselduck.net/



Earnings

Low: \$50,000
 Average: \$75,000
 High: \$120,000

Essential Characteristics

- Attention to detail
- Mechanically inclined
- Effective communication skills
- Works well under pressure

