



## Chief Engineer

### Education and Training

Chief Engineers must hold a Third-Class Engineering certificate for the specific type of ship he serves and he must complete the certification for Senior Officer of the Marine Emergency Duties Courses. A typical engineer must serve 24 months as an engineer officer on watch in the engine room. Additional certification includes Propulsion Plant Simulator Course Level II.

### Nature of Work

A Chief Engineer is responsible for all propulsion systems aboard a vessel. He must conduct regular maintenance, repairs and overhaul of damaged or worn equipment. The main work area is the engine room and often guides less experienced engineers.

### Main Duties

- Inspect ship machinery, equipment, propulsion systems and electrical systems
- Conduct repairs when required
- Assign and supervise engine department personnel including setting the engine room watch schedule
- Provide mentoring to junior engineers
- Advise the Captain of any defects or needed repairs
- Advise the Captain of the most economical use of machinery
- Coordinate Safety Equipment check and is responsible for engine crew safety

### Typical Employer

Shipping lines and ferry operators

### Additional Information

BCIT  
[www.bcit.ca/study/programs/2845dipts](http://www.bcit.ca/study/programs/2845dipts)  
 The Marine Institute  
[www.mi.mun.ca/](http://www.mi.mun.ca/)  
 L'institut maritime du Québec  
[www.imq.qc.ca/eng/partner/index.htm](http://www.imq.qc.ca/eng/partner/index.htm)

### Earnings

Low:	\$80,000
Average:	\$110,000
High:	\$140,000

### Essential Characteristics

- Strong leadership skills
- Attention to detail
- Manual dexterity
- Interpersonal skills

