

Becoming a Marine Engineer in Canada

The costs of obtaining and maintaining a Transport Canada 1st Class Marine Engineering Certificate of Competency, using an approved Cadet program

A list of "out of pocket" expenses, and time commitments, as of January 2013, to work as a ship's engine room professional in Canada. Does not include lost wages, cost of transportation, housing, food, taxes, etc. Nor does it include numerous social costs.

	TC Fees	Training Fee	Training Days	Sea Time *****
Obtain Mariner's Discharge Book and a CDN number	\$0.00		0.5	
Pictures for Mariner's Discharge Book (passport pic)	\$15.00			
Seafarer's Medical Certificate	\$150.00			
Pre-COC Training				
BCIT Marine Engineering Cadet Program Yr 1 (2012 cost)		\$7,365.15	365	180
BCIT Marine Engineering Cadet Program Yr 2 (2012 cost)		\$3,993.34	180	180
BCIT Marine Engineering Cadet Program Yr 3 (2012 cost)		\$4,122.08	180	180
BCIT Marine Engineering Cadet Program Yr 4 (2012 cost)		\$3,090.38	180	180
Total	\$165.00	\$18,570.95	905.5	720

Qualifying Service				360
4th Class COC				
General Engineering Knowledge Examination - multiple choice examination *	\$27.50		1	
EK Motors / Steam - multiple choice examination ***	\$27.50		1	
EK - oral examination ***	\$55.00		1	
Certificate of Competency ***	\$0.00		0.5	
Total	\$110.00	\$0.00	3.5	360

Qualifying Service (> 500kW)				360
3rd Class COC				
EK General-written examination 3.5 hours ***	\$27.50		1	
EK Motor or Steam -written examination 3.5 hours ***	\$27.50		1	
EK -oral examination ***	\$55.00		1	
Certificate of Competency ***	\$0.00		0.5	
Total	\$110.00	\$0.00	3.5	360

Qualifying Service (> 750kW)				360
2nd Class COC				
EK General-written examination 3.5 hours ***	\$27.50		1	
EK Motor or Steam -written examination 3.5 hours ***	\$27.50		1	
EK -oral examination ***	\$55.00		1	
Certificate of Competency ***	\$0.00		0.5	
Total	\$110.00	\$0.00	3.5	360

TC 1st Class Math Refresher Course ****		\$250.00	20	
TC 1st Class Applied Mechanics Course ****		\$800.00	37	
TC 1st Class Thermodynamics Course ****		\$800.00	37	
TC 1st Class Electrotechnology Course ****		\$450.00	37	
TC 1st Class Naval Architecture Course ****		\$450.00	37	
TC 1st Class EK General Course ****		\$450.00	30	
TC 1st Class EK Motors Course ****		\$450.00	30	
Qualifying Service (6 months > 1500kW, 9 months > 3000kW)				450
Total Preparation	\$0.00	\$3,650.00	228	450

Applied Mechanics -written examination 3.5 hours ***	\$27.50		1	
Applied Thermodynamics -written examination 3.5 hours ***	\$27.50		1	
Electro Tech -written examination 3.5 hours ***	\$27.50		1	
Naval Architecture -written examination 3.5 hours ***	\$27.50		1	
EK -written examination 3.5 hours ***	\$27.50		1	
EK Motor or Steam -written examination 3.5 hours ***	\$27.50		1	
EK -oral examination ***	\$55.00		1	
Certificate of Competency ***	\$0.00		0.5	
Total	\$220.00	\$0.00	7.5	0

		Unit Cost	Annual cost		
Annual COC / Work maintenance cost	Certificate of Competency renewal ***	\$27.50	0.5	\$5.50	0.1
	Seafarer's Medical Certificate	\$150.00	0.5	\$75.00	0.1
	Marine Advance First Aid (MAFA) **	\$540.00	5	\$108.00	1.0
	Canadian Passport (depends on company)	\$120.00	0.5	\$24.00	0.1
	Professional Membership in CMarE (optional)	\$110.00	0	\$110.00	0.0
	Union Dues (depends on company)	\$96.00	0	\$1,152.00	0.0
Total		\$1,043.50	6.5	\$1,474.50	1.3

Additional	Georgian College - ER Resource Management	\$2,247.00	4	
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- * BCIT Marine Campus, North Vancouver, BC
- ** Western Maritime Institute, Nanaimo, BC
- *** Transport Canada Marine Safety
- **** Memorial University / Fisheries and Marine Institute, NF
- ***** Sea Time - 8 hrs days and refers to Transport Canada qualifying service which must meet certain requirements. i.e. horsepower, type of propulsion, rank / duty onboard, specific vessel types.

Total Training / Certification Costs and Time required	\$25,453.95	9.4 Years
Total training time commitment - in months	38.4	3.2 Years
Total sea time requirements - in months	75.0	6.3 Years