

Career development – draft MPR

Jodi Gaudet-January 29, 2018

ERA/ERR to EOOW (Engineering Officer on Watch)

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Cadet Program

If a cadet program is completed the engineer will do all the required academics in the 3 year program plus require a completed TRBE (training record book) and 6 months sea time on vessel with propulsive power over 750kw as assistant engineer

“From the deck plates”

- skills training
 - ship watchkeeping practices (Simulator level 1)
 - applied Mathematics
 - applied mechanics 1
 - thermodynamics 1
 - Electrotechnology 1
 - naval architecture 1
 - technical drawing
 - Aux. machinery and systems 1 (EK general)
 - diesel engine propulsion systems 1 (EK motor)
 - marine law and ships business 1
 - high voltage safety (for vessels over 1000V)
 - leadership and teamwork
 - Training record book
 - STCW basic safety
 - STCW survival craft
 - advanced fire fighting
 - marine advanced first aid
- 36 months of sea time on vessel with propulsive power over 750kw of which 30 months is sea service in the engine department. Not less than 6 months is performing watch keeping duties under supervision of a CE or qualified engineer officer.

EOW to Second Engineer

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Cadet Program

If a cadet program is completed the academics will be completed in the program.

Will require 12 months sea service on vessel over 750kw while serving as engineer in charge of the engineering watch, second engineer or chief engineer, out of which at least 3 months must be acquired on a vessel that has a propulsion power of at least 3000 kw.

"From the deck plates"

- Ship management practices (simulator level 2)
- Applied mechanics 2
- thermodynamics 2
- electrotechnology 2
- naval architecture 2
- marine law and ships business 2
- leadership and managerial skills
- Aux machinery and systems 2 (EK general)
- diesel engine propulsion systems 2 (EK motor)
- STCW MED refresher if the MEDs were completed more than 5 years ago.
- valid Marine Advanced first aid

Will require 12 months sea service on vessel over 750kw while serving as engineer in charge of the engineering watch, second engineer or chief engineer, out of which at least 3 months must be acquired on a vessel that has a propulsion power of at least 3000 kw.

EOW to Chief Engineer

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It is possible to progress directly from EOW to Chief Engineer, never obtaining a Second Engineer certificate. The requirements are the same as above for Second Engineer EXCEPT:

Will require 24 months of sea service on board a vessel of at least 750kw, out of which a minimum of 12 months was served as second engineer or chief engineer on a vessel that has a propulsive power of at least 3000KW **OR**

Will require 36 months of sea service on board a vessel of at least 750 kw while serving as engineer officer, out of which a minimum of 12 months were served on board a vessel with propulsive power of at least 3000kw.

The difference between these 2 periods of qualifying sea service is the capacity the engineer is serving as when acquiring the sea service. Each month of service acquired up to 12 months, is credited at double the rate if it is acquired as second engineer or chief engineer on board a vessel that has propulsion power of at least 3000kw.

Second Engineer to Chief Engineer

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Cadet Program

If a cadet program is completed the academics will be completed in the program.

Will require 12 months sea service on vessel over 750kw while serving as engineer in charge of the engineering watch, second engineer or chief engineer, out of which at least 9 months must be acquired on a vessel that has a propulsion power of at least 3000 kw.

"From the deck plates"

- STCW MED refresher if the MEDs were completed more than 5 years ago.
- valid Advanced first aid

Will require 12 months sea service on vessel over 750kw while serving as engineer in charge of the engineering watch, second engineer or chief engineer, out of which at least 9 months must be acquired on a vessel that has a propulsion power of at least 3000 kw.

Sea time notes: The sea time required to progress from EOW to Chief engineer begins accruing when the EOW certificate is issued. This means that any sea time earned as an engineer after obtaining EOW will stay valid up to CE. An engineer will not lose any extra sea time they have when they obtain their second engineer certificate. The **TOTAL** amount of sea time needed from EOW to CE is 24 months (or 36 months if earned as a lower rank than second or Chief engineer)

Other certificates

EOW to Second Engineer<3000kW

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- Must hold an EOW certificate
 - Have done MEDs in last 5 years or MED refresher
 - Valid marine advanced first aid
 - Ship management practices (simulator level 2)
 - Applied mechanics 2
 - thermodynamics 2
 - electrotechnology 2
 - naval architecture 2
 - marine law and ships business 2
 - leadership and managerial skills
 - Aux machinery and systems 2 (EK general)
 - diesel engine propulsion systems 2 (EK motor)
- After obtaining certificate mentioned above (EOW), has acquired at least 12 months sea time on board a vessel with propulsion power of at least 750 Kw while serving as assistant engineer (Cadet), an engineer in charge of the watch, second engineer or chief engineer.

Second Engineer<3000kW to Chief Engineer<3000 kW

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- Must hold a Chief Engineer less than 3000kW certificate
 - Have done MEDs in last 5 years or MED refresher
 - Valid marine advanced first aid
- After obtaining certificate mentioned above, has acquired at least 12 months sea time on board a vessel with propulsion power of at least 750 Kw while serving as an engineer in charge of the watch, second engineer or chief engineer.

Second Engineer to Chief Engineer less than 6000 kW

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- Must hold a Second Engineer STCW
 - Have done MEDs in last 5 years or MED refresher
 - Valid marine advanced first aid
- After obtaining certificate mentioned above, has acquired at least 3 months sea time on board a vessel with propulsion power of at least 3000 Kw while serving as second engineer or chief engineer.