

Adding Propulsion Modes

Adding Propulsion Modes (Engineering Officer)

Per [46 Code of Federal Regulations \(CFR\) 11.502](#):

- (b) If an applicant desires to add a propulsion mode to his or her endorsement, the following alternative methods, while holding a license or MMC endorsement in that grade, are acceptable:
- 1) Four months of service as an observer in the same capacity as their endorsement on vessels of the other propulsion mode
 - 2) Four months of service as an engineer officer at a lower level on vessels of the other propulsion mode
 - 3) Six months of service as oiler, watertender, or junior engineer on vessels of the other propulsion mode
 - 4) Completion of a Coast Guard approved training course for this endorsement.
- (c) Applicants for an original, raise in grade, or increase in the scope, of an engineer license or MMC endorsement, other than an increase in horsepower limitation, who have not previously done so must meet the requirements of § 11.201 of this part.

Examples of Adding Propulsion Modes (not including Gas Turbine), for mariners with service before March 24, 2014:

CFR Requirement	Currently Holds	Wants to Add	Must Provide	Qualifies As	Other
11.502 (b) (1)	3 rd A/E Motor AHP	Steam	4 months of service as an Observer in a 3 rd A/E capacity on steam vessels	3 rd A/E Steam and Motor AHP	Exams are required
11.502 (b) (2)	1 st A/E Motor and Gas Turbine of AHP AND 2 nd A/E Steam	Steam to 1 st A/E	4 months of service as a 2 nd A/E on steam vessels	1 st A/E Steam, Motor, and Gas Turbine of AHP	Exams may be required

CFR Requirement	Currently Holds	Wants to Add	Must Provide	Qualifies As	Other
11.502 (b) (3)	3 rd A/E Steam and Gas Turbine AHP	Motor	6 months of service as Watertender on motor vessels	3 rd A/E Steam, Motor, and Gas Turbine of AHP	Exams are required
11.502 (b) (4)	3 rd A/E Motor AHP	Steam	Coast Guard approved course stating that it covers the exam requirements to add the steam A course may meet either the service requirement or the examination requirement propulsion	3 rd A/E Steam and Motor AHP when the mariner provides the required service	Exams or sea service may be required based upon the course approval of the Coast Guard approved training course provided.

Adding Propulsion Modes (Gas Turbine)

[Navigation and Vessel Inspection Circular \(NVIC\) 02-01](#) is the official guidance on adding a gas turbine propulsion, for mariners with service before March 24, 2014.

Per NVIC 02-01, Engineers who began qualifying service or training on or after August 1, 1998, and who wish to use this service toward an engineering credential and/or corresponding international credential for service on gas turbine vessels must do the following:

- 3rd A/E, Assistant Engineer (Limited Oceans) or DDE Unlimited – Must complete a Coast Guard approved operational Gas Turbine course.
- 2nd A/E – If gas turbine is not held at the 3rd A/E level, the mariner will need to complete a Coast Guard approved operational Gas Turbine course as well as having 60 days of sea service as Engineer Watch Officer on a gas turbine vessel. If the gas turbine endorsement is already held at the 3rd A/E level, the gas turbine endorsement will carry over to 2nd A/E credential provided the applicant has at least 60 days of licensed experience on gas turbine vessels.

- Chief Engineer Unlimited or 1st A/E – If gas turbine held previously the mariner will still need to complete a Coast Guard approved management level gas turbine course. If gas turbine was not held previously, the mariner must complete the course as well as 60 days of service as an Engineer Watch Officer on gas turbine vessels.