

GUIDANCE NOTE No: 52/2000

REVISION No: 3

Particular Requirements for a Certificate of Competency as Marine Engine Driver (Motor) Grade 3

The Northern Territory Marine Act places certain certification requirements upon persons wishing to take charge of the propulsion machinery on a vessel operating in Northern Territory Waters. This information sheet has been compiled for the benefit of persons wishing to apply for or undertake the examination for a Certificate of Competency as Marine Engine Driver (Motor) Grade 3.

If an applicant intends enrolling on a course, completed application forms together with assessment fees must be lodged with Marine Safety Branch at least **two weeks** prior to the commencement of the course **or applicants may not be allowed to take the examinations on completion of the course.**

Course information can be obtained from either:

Charles Darwin University
Transport and Maritime Industries
Casuarina Campus
Postal:
Charles Darwin University
Darwin NT 0909
Ph: 08 8946 7504, Fax: 08 8946 6155,
Email: tmi@cdu.edu.au

Seafood and Maritime Industries Training
Level 1, Darwin Shipstores Building
Fishermans Wharf, Darwin NT
GPO Box 4119
DARWIN NT 0801
Ph: 08 8981 0495, Fax: 08 8981 4677,
Email: enquiry@smitech.com.au

It is stressed that attendance at these courses is ***not*** a prerequisite for the issue of a Certificate of Competency and that persons may be examined subsequent to private study or distance learning providing the other prerequisites are fulfilled.

CERTIFICATE OF COMPETENCY AS MARINE ENGINE DRIVER (MOTOR) GRADE 3

Is the acceptable qualification for:

Taking charge of the propulsion machinery on a vessel -

- of less than 250 kw operating OFFSHORE but within a limit of 100 nautical miles to seaward.
- of less than 500 kw operating INSHORE but within a limit of 15 nautical miles to seaward.

Prerequisites - Sea Service, Short Courses, and Fees

Prior to sitting any examinations, an applicant must :-

1. Complete the application and record of sea service forms and submit them with a fee of \$30 to the Marine Office. Cheques should be made payable to the "Receiver of Territory Monies";
2. Be at least 18 years old;
3. Provide proof of identification – refer to Guidance Note No. 46/2000;
4. Provide documentary evidence of approved service in an engineering capacity on vessels of not less than 75 kw propulsion power as detailed hereunder:
 - No previous training 6 months;
 - or**
 - Marine fitter 3 months;
Diesel or Motor Mechanic
Refrigeration Mechanic
Electrical Fitter Mechanic

Applicants who do not have the required sea service cannot sit any examinations.

ONLY SEA SERVICE OBTAINED FROM THE AGE OF 15 YEARS CAN BE ACCEPTED FOR ASSESSMENT OF YOUR ELIGIBILITY TO SIT THE EXAMINATIONS FOR A MARINE QUALIFICATION.

Note 1: **Approved Service**

For the purpose of engineering qualifications, APPROVED SERVICE means:

- **service in a capacity carrying out engineering duties appropriate to the level of the certificate at sea and engineering maintenance in port.**

An applicant whose service is carried out exclusively on outboard engines may be issued a certificate restricted to “vessels powered by outboard engines only”.

This restriction may be removed on production of evidence of not less than 3 months service in capacity where engineering duties and maintenance are carried out on inboard diesel engines.

Note 2: In the case of a person operating a vessel in a dual capacity (eg. Master/Engineer or Deckhand/Assistant Engineer), 50% of the total service will be taken as engineering service.

5. Satisfactorily complete a Shipboard Safety Course consisting of Lifesaving Appliances, Firefighting and First Aid.

Please note:

- (a) That the fire-fighting and sea survival elements of a Shipboard Safety course must have been completed within the **5** years prior to the issue of a seafarers' first Certificate of Competency.
 - (b) First aid Certificates must be valid at the time of issue of any Certificates of Competency.
 - (c) If a Shipboard Safety Certificate is more than **10** years old, Seafarers must resit the Fire-fighting and Sea survival elements prior to the issue of a new Certificate of Competency. (this is not applicable for replacement certificates).
 - (d) For the issue of the second or third etc. Certificate of Competency, if a Shipboard Safety Certificate is between 5 and 10 years old, the Marine Safety Branch will determine the validity of the Fire-fighting element.
 - (e) **Exemptions** may only be granted if the training/experience has been obtained within the 5 years prior to the issue of the first Certificate of Competency. Exemptions are valid for a maximum of 5 years.
6. Make payment of an examination fees of \$110. (\$55 for both the written and oral examinations). Note: A fee of \$55 is applicable for the resit of any examination.

Issue of Certificate

An unrestricted certificate of competency as Marine Engine Driver (Motor) Grade 3 will be issued by the Marine Safety Branch after all prerequisites have been completed and the applicant has :-

1. passed the written and oral examinations;
2. provided valid copies to the Marine Safety Branch, of applicant's:
 - Elements of Shipboard Safety Certificate;
 - Senior First Aid Certificate
3. paid a fee of \$20 for the issue of the certificate;
4. signed two signature labels; and
5. provided two (2) colour passport photographs.

Note: Fees include GST where applicable.

Examination:

The examination will be based on the syllabus and will comprise :-

ENGINEERING KNOWLEDGE (WRITTEN) - 1 HOUR- **Pass Mark 60%**
ENGINEERING KNOWLEDGE (ORAL)

VALIDITY OF EXAMINATION RESULTS

Note: **The passes in the written and oral examinations are valid for one (1) year.** If you have not completed the requirements for the issue of the certificate within the validity dates you may be required to re-sit the examinations.

SAFETY MANNING REQUIREMENTS - ENGINEERING QUALIFICATIONS (FISHING VESSELS) – refer to Guidance Note: 28/96.

Note: **Trading** Vessels are subject to determination by the Manning Committee.

MARINE ENGINE DRIVER (MOTOR) GRADE 3 - SYLLABUS

- (a) Marine internal combustion engines and their fittings, shafting and propellers, preparing for use;
- (b) Precautions necessary for the prevention of fire or explosion associated with the use of petrol, LP gas and distillate, and with the charging of batteries;
- (c) The action that should be taken in the event of fire or explosion, including the use of fire fighting appliances;
- (d) Cooling water and fuel systems, bilge pumping arrangements, including precautions against backflooding;
- (e) Care of electrical systems including batteries. Safety procedures when working on low and medium voltage a.c. and d.c. systems. Fuses and circuit breakers;
- (f) Steering gear and deck machinery;
- (g) Fuel consumption; estimation and calculation.

Propulsion Power

For purposes of engineer qualifications and manning, PROPULSION POWER means :-

- (1) In the case of a multiscrew vessel of less than 35 metres in length for use in sheltered waters, inshore, restricted offshore or offshore operations, propulsion power means the maximum continuous rated power in kilowatts of the larger engine provided for the propulsion of the vessel by one screw; and
- (2) In the case of a vessel not included in (1) above, means the total maximum continuous rated power in kilowatts of all the machinery provided for propulsion of the vessel.

Signed by: Sri Srinivas

Date Issued: 29 February 2008

For further information contact Marine Safety Branch:

2nd Floor, Energy House, 18-20 Cavenagh, Darwin NT 0800, GPO Box 2520, Darwin NT 0801

Telephone: 08 8924 7100, Facsimile: 08 8924 7009

Email: marinesafety@nt.gov.au

<http://www.nt.gov.au/dpi/>

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