

MAR40220 Certificate IV in Maritime Operations (Marine Engine Driver Grade 1 Near Coastal)

Course Guide



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SEAFOOD & MARITIME
SMIT
INDUSTRIES TRAINING



SUMMARY OF OCCUPATION

This qualification is suitable for people working in the maritime industry operating as Chief Engineer on vessels with propulsion power up to 1500 kW and Second Engineer on vessels with propulsion power up to 3000 kW in the exclusive economic zone (EEZ).

Licensing/Regulatory Information

This level of qualification is currently cited as meeting some of the requirements for certification as a Marine Engine Driver Grade 1 Near Coastal as defined by the National Standard for Commercial Vessels (NSCV) Part D.

Certification will require achievement of the MAR40220 Certificate IV in Maritime Operations (Marine Engine Driver Grade 1 Near Coastal), qualifying sea service and completed Australian Maritime Safety Authority (AMSA) approved task book or qualifying sea service, or qualifying sea service and a workshop skill equivalent qualification, AMSA final assessment and an AMSA approved first aid certificate.

People seeking certification should check with AMSA. This certificate will allow you to work:

- As chief engineer on vessels with inboard engines with propulsion power up to 1500 kilowatts within the exclusive economic zone (EEZ).
- As second engineer on vessels with inboard engines with propulsion power up to 3000 kilowatts within the EEZ.
- As chief or second engineer on vessels with outboard engines within the EEZ.
- As an assistant under the direct supervision of the chief engineer.
- In the engine room of a vessel up to 80 metres long with propulsion power up to 3000 kilowatts.

WORKING CONDITIONS

Marine engineers often spend long periods at sea, where they work shifts which include working nights, weekends and public holidays. When they return to land, they generally spend several weeks on shore leave. While at sea they work in all weather conditions, which can include stormy weather and rough seas. A ship's engine room is generally hot, noisy and dirty. Marine engineers are also often required to work at heights and in confined spaces.

TOOLS AND TECHNOLOGY

Marine engineers may use a wide range of hand and power tools used in engine servicing including; angle grinders, lathes, drills and hydraulic bolt-tensioning equipment. They may also operate cranes and other lifting equipment to move heavy machinery around the ship. UHF radios are frequently used to communicate with other crew members around the vessel. Marine Engineers must also wear safety equipment which may include earmuffs, overalls, safety glasses, steel-capped boots and high visibility clothing. In emergencies they may also need to use fire extinguishers and other safety equipment.

ENTRY REQUIREMENTS

There are no entry requirements for this qualification. However, it is expected that students will have appropriate language, literacy and numeracy skills to complete the training and assessment requirements. Prior to commencing this course, students will participate in a language, literacy and numeracy (LLN) assessment however, students who can provide evidence of completing an Australian Certificate II or higher-level qualification will not need to sit the test.

SMIT's LLN assessment levels are based on the Australian Core Skills Framework (ACSF) in the skills of:

- Reading Level 3-4
- Writing Level 3-4
- Oral Communication Level 3-4
- Numeracy Level 4



YOUR COURSE

There are 29 core units to be completed in this qualification.

Code	Unit of Competence	Field
HLTAID011	Provide first aid	Core
BSBTWK201	Work effectively with others	Core
MARA024	Manage vessel stability	Core
MARB032	Undertake basic maintenance of electrical systems	Core
MARB034	Carry out basic welding, brazing, cutting and machining operations on a coastal vessel	Core
MARB041	Manage refueling	Core
MARB047	Undertake maintenance of 240 to 440 voltage alternating current electrical systems	Core
MARB048	Undertake maintenance of machinery, machinery systems and structural components	Core
MARC033	Complete engine room tasks	Core
MARC034	Maintain hull out of water	Core
MARC035	Operate and maintain extra low and low voltage electrical systems and equipment	Core
MARC036	Operate deck machinery	Core
MARC039	Operate marine internal combustion engines, and propulsion and auxiliary systems	Core
MARC040	Manage fuel systems	Core
MARC041	Operate and monitor marine internal combustion engines, propulsion plant and auxiliary systems	Core
MARC042	Operate electrical systems	Core
MARC049	Operate 240 to 440 voltage alternating current electrical systems	Core
MARC050	Operate auxiliary machinery systems up to 1500 kW	Core
MARC053	Operate marine internal combustion engines and associated systems up to 1500 kW	Core
MARC054	Operate propulsion transmission systems up to 1500 kW	Core
MARF027	Apply basic survival skills in the event of vessel abandonment	Core
MARF028	Follow procedures to minimise and fight fires on board a vessel	Core
MARF029	Meet work health and safety requirements	Core
MARF030	Survive at sea using survival craft	Core
MARG009	Manage an engine room and small engineering team in emergencies	Core
MARJ006	Follow environmental work practices	Core
MARJ007	Monitor environmental management on a vessel	Core
MARL046	Carry out engineering calculations	Core
RIIWHS202E	Enter and work in a confined space	Core

ELIGIBILITY

To be eligible for a marine engine driver grade 1 near coastal certificate of competency you must:

- Be at least 16 years old on the certificate issue date.
- Hold a Coxswain grade 1 near coastal, Coxswain grade 2 endorsed for 500 kilowatt inboard propulsion, Marine engine driver grade 3 near coastal, Marine engine driver grade 2 or a workshop skill equivalent qualification.
- Meet medical, eyesight, sea service and course requirements.

FACE TO FACE COURSE DURATION AND DELIVERY METHOD

Face to face contact hours of 10 days which is mostly delivered through hands on task on our training vessel (SMIT Advance) at Francis Bay Marina.

Please Note: There is a requirement to do homework throughout and at the end of this course.

DISTANCE COURSE DURATION AND DELIVERY METHOD SMIT SUPPORT

Learning via distance through technology such as Dropbox has a strong focus on the environment and the long term sustainability of our planet, gone are the days where we need to waste paper resources with printing.

We have taken the step and made a commitment to embedding sustainability principles across all our activities.

Studying your qualification through cloud based learning means:

- Cloud gives students a unique set of soft skills in addition to their studies. These include skills such as time management, the ability to work independently, self-motivation and computer skill.
- Flexibility; you can study when and where you want. Our courses and programs work beautifully across all devices while providing you with live academic support. Now all of your training and learning materials will be available from any device, PC, MAC, iPad or Android devices.
- Our Trainers and Assessors are available to answer any of your queries or help you through your studies to achieve a successful outcome. Trainers will contact you either via phone or email on a regular basis throughout your studies to keep you motivated and on track.
- Studying in cloud means that you will see your results and feedback for every submitted assessment much faster. Trainers are able to login and see how you are progressing and add helpful hints electronically throughout your learning journey.
- You no longer need to sit in a classroom environment for weeks on end, losing valuable work time and in some cases loss of employment.
- To complete your qualification, you will need to finish and be made Competent in all written assessment tasks. Practicals for First Aid, Shipboard Safety, Radio and Navigation can be booked in after completion of all written work.
- If you have any prior qualifications for Shipboard Safety, First Aid, Radio you may be eligible for a Credit Transfer for any of those units.
- Dates for practicals are set out in the calendar. Information is available on the website or from our Administration Staff.

Please see our Student Study Guide for more information about cloud learning.

SMIT SUPPORT

We pride ourselves on our friendly and approachable Training and Administration Staff. Everyone working at SMIT is more than happy to help with your queries or concerns. Extra mentoring help is available upon request.

ABOUT YOUR SEA TIME

The sea service you need depends on the certificate of competency or other qualification you currently hold.

All sea service must be done:

- on commercial vessels with inboard diesel engine with propulsion power greater than or equal to 375 kilowatts
- while performing duties as an engineer, an engine driver, an assistant to an engineer or engine driver, or as a general purpose hand.

If you hold a Coxswain grade 1 near coastal, or Coxswain grade 2 endorsed for 500 kilowatts inboard propulsion, you need to show that you have either:

- 240 days with a completed approved task book
- 480 days without a task book.

If you hold a Marine engine driver grade 3 near coastal you need to show that you have either:

- 180 days with a completed approved task book
- 360 days without a task book.

If you hold a workshop skill equivalent qualification you need to show that you have either:

- 90 days with a completed approved task book
- 180 days without a task book.

If you hold a Marine engine driver grade 2 near coastal you need to show that you have either:

- 120 days with a completed approved task book
- 240 days without a task book.

You must complete at least half of the qualifying sea service required for the certificate in the five years before the application.

If you have completed a task book you must attach a copy of the seafarer details page to your application.

If you have an existing certificate of competency or qualification you must attach a copy to your application.

You need to submit at least one of the following as proof of qualifying sea service:

- Record of sea service form 771
- an approved sea service log book
- the on board sea service record from your task book
- a letter from the vessel operator, owner, master or chief engineer detailing your sea service.

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CREDIT TRANSFER OR RPL

SMIT believes that no learner should be required to undertake a unit of competency for which they are already able to demonstrate satisfactory achievement of the performance outcomes, as stated in the endorsed training package.

Clients who consider they already possess the competencies identified in all or part of any course/qualification offered by SMIT may seek recognition. Have a chat with one of our friendly trainers and see if you are able to have a credit transfer or recognition of prior learning (RPL).

FEES AND PAYMENT TERMS & CONDITIONS

- A deposit is required before the first day of the course.
- Full payment of course fees is required before or on commencement of the course.
- Under certain circumstances, SMIT staff will discuss and agree on a payment plan with the student.
- A Qualification Certificate, AMSA Mandated Practical Assessment or Interim Certificate of Competency will not be issued until the full fees have been paid.
- SMIT adjusts prices occasionally so please check on enrolment.
- When an employer is paying for the student to complete a course, a Purchase Order is required from the employer before course commencement.
- An invoice for payment will be issued to the employer at the commencement of a course. Payment terms are 14 days.
- Fees may be paid by Credit Card at the reception or over the phone, by cash or by Bank Transfer.
- **Bendigo Bank details: Account Name: SMIT; BSB 633000; Account Number: 167536564**

SMIT reserves the right to cancel a course if the numbers do not meet the minimum requirement to commence the program.

YOUR TRAINING RESOURCES

On arrival at SMIT you will be given a backpack and a hat. Contents of the backpack include:

- Pencils, pens, highlighters
- Maths kit for the navigation components of your training
- Notebook
- A pack containing all of the AMSA forms that you will need to submit on completion of your studies.

WHAT TO BRING FOR DISTANCE OR FACE TO FACE TRAINING

On enrolment at SMIT you will be given a backpack and a hat. Contents of the backpack include:

- Pencils, pens, highlighters, coloured pencils
- Maths kit for the navigation components of your training
- Notebook
- A pack containing all the AMSA forms that you will need to submit on completion of your studies.

You will need to purchase a copy of the Australian Boating Manual. This can be purchased at SMIT or alternatively you can order your copy from the Australian Boating Manual website at: <https://www.australianboatingmanual.com/>. Cost is \$85.00 per book.

You will need to bring your:

- Identification: A current Australian Driver's License or Passport.
- For practical assessment on board a vessel: closed in shoes, long sleeved Hi-Viz shirt, long pants, hat & sunscreen.

Transport to the vessel will be provided if you do not have your own vehicle.

Meals: Please bring your own lunch or use a cafe nearby. Coffee, tea and biscuits are supplied.

ENROLMENT PROCESS

The enrolment form can be downloaded from SMIT's website, completed electronically and then emailed to admin@smit.edu.au. Forms are also available at reception. To secure your place in this qualification we ask that your enrolment form and payment/deposit are submitted to SMIT before the commencement of the course.

DOCUMENTS REQUIRED

- Be at least 16 years when the certificate is issued
- Record of Sea Service (AMSA form 560) or
- Record of Sea Service to meet standard, signed by a qualified person;
- Certificate of Medical Fitness for a Marine Qualification (AMSA form 559);
- Eyesight test certificate (AMSA form 542);
- Proof of Identity;
- Photographs (2);
- Certificate 4 Marine Engine Driver Grade 1 (NC) issued by an AMSA approved registered training organisation (RTO);
- HLTFA unit of competency Apply first aid or another certificate that the national regulator considers to be equivalent;
- Application for a Certificate of Competency – first time issue (AMSA form 534);

Seafood and Maritime Industries training is proudly supported by:



Proudly Territory Owned and Operated



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