



## MARITIME COURSES



The maritime industry is a specialist employment area, and TAFE International Western Australia can help you to achieve an internationally recognised and industry approved qualification. The comprehensive training facility located at the Fremantle campus, will ensure that you have the best learning experience during your studies.



"Western Australia is one of the only locations in the world to have a training simulator. Perth is a beautiful, small city with a multicultural society made up of friendly and interactive people.

I'm a scuba diver so I'm looking forward to going to Rottnest Island! I'm learning a lot because I'm changing career paths within the maritime industry. TAFE International Western Australia assessed my application and issued the offer very quickly.


The best thing about my course is getting to go out on an actual ship and do exercises at sea. I would definitely recommend studying this course to my family and friends."

**Mohammad Nooroudeen Mosadeea | Mauritius**  
MAR50320 Diploma of Maritime Operations -  
Watchkeeper Deck


# MARITIME OPERATIONS

Year 12  
equivalent  
plus resumé

**MAR50320 Diploma of Maritime Operations  
[Master less than 500 GT] or  
MAR50320 Diploma of Maritime Operations  
[Watchkeeper Deck]**

 12 months

**Advanced Diploma of Maritime  
Operations [Master Unlimited]**

 12 months

An IELTS score (Academic) of 6.0 with no band less than 6.0 or equivalent is required for entry into the diploma and pathway into the advanced diploma.

For direct entry into the advanced diploma level an IELTS score (Academic) 7.0 with no band less than 7.0 or equivalent is required.

## MAR50320 Diploma of Maritime Operations [Master less than 500 GT]

TAFE ID: AC53 | CRICOS code: 105104H

### Why choose this course?

Get qualified for a maritime career working as a master or chief mate on vessels less than 500 gross tonnage.

During this course you will experience fighting fires in simulated environments, practicing in-water survival skills and rescuing others in distress. You will also learn how to tie seaman's knots and hitches to ships in rough waters.

This course will develop your leadership capability to lead and manage a crew on any size vessel. You will gain the skills to instruct the ship's crew on watchkeeping, wheelhouse operations, environmental management, routine maintenance, record keeping and logbooks, communications and stability.

On successful completion of this course you will be able to perform the duties or functions of:

- » a master on vessels less than 24 metres (foreign going);
- » a chief mate on vessels with less than 3000 gross tonnage (GT);
- » a master of commercial vessels with less than 500 gross tonnage (GT); and
- » a mate on vessels with less than 500 gross tonnage (GT).

### Admission requirements





To be assessed for entry into this course you must:


- » submit a comprehensive resumé outlining your work experience, employment history and qualifications;
- » have completed the equivalent of Australian Year 12;
- » provide proof of an IELTS score (academic) of 6.0 with no band score less than 6.0 or equivalent; and
- » have 36 months of sea time to achieve Australian Maritime Safety Authority (AMSA) requirements.

### Additional requirements

Legislative and regulatory requirements are applicable to this qualification. This qualification meets some of the requirements to obtain an AMSA certificate of competency as a master of a commercial vessel less than 500 GT as defined in marine orders and Standards of Training Certification and Watchkeeping (STCW).

The AMSA certification of competency will require you to:

- » complete an approved program of study that meets regulations STCW A-II/1 and A-II/2 (MAR50320 Diploma of Maritime Operations - Masters less than 500 GT);
- » hold or have held certificates of competency as defined in **Marine Order 71**; 
- » have qualifying sea service as defined in **Marine Order 71**; 
- » completed a STCW short courses as defined in **Marine Order 71**; 
- » hold a valid AMSA certificate of medical fitness;
- » pass a final AMSA assessment; and
- » meet any other regulatory requirements as defined in **Marine Order 71**. 

More information is available at the AMSA website [amsa.gov.au](https://www.amsa.gov.au).  You are encouraged to refer to this website on a regular basis as frequent changes may occur.

College	February intake	July intake
South Metropolitan TAFE Fremantle campus		

### Course units

To achieve this qualification, you must demonstrate competency in 26 core units comprising:

- » 19 core units; and
- » seven electives.

### Core units

- » HLTAID011 Provide First Aid
- » MARA017 Maintain seaworthiness of the ship (ship stability)
- » MARA025 Monitor, loading, unloading, securing and stowage of cargo
- » MARF031 Apply leadership and team working capability
- » MARF035 Contribute to fire prevention and firefighting (basic firefighting)
- » MARF037 Follow vessel security procedures (security awareness training)
- » MARF041 Observe personal safety and social responsibility (PSSR)
- » MARF044 Prevent, control and fight fires on board a vessel (advanced firefighting)
- » MARF046 Survive at sea in the event of vessel abandonment and personal survival techniques (PST)
- » MARF047 Monitor compliance with legislative requirements
- » MARH022 Plan and conduct a passage and determine position



- » MARH023 Use of electronic chart display and information system to maintain the safety of navigation (ECDIS)
- » MARH024 Use of radar and other bridge equipment to maintain safety of navigation
- » MARJ008 Ensure compliance with pollution prevention requirements
- » MARK011 Manoeuvre the ship
- » MARN011 Maintain seaworthiness of the ship (ship construction)
- » MARO009 Maintain a safe navigational watch
- » MARO012 Transmit and receive information by visual signalling
- » RI1WHS202E Enter and work in a confined space

#### South Metropolitan TAFE Fremantle campus

**Tuition fee** \$11,920 | **Resource fee** \$6,004 | **Materials fee** \$0  
**Duration** two semesters (12 months)

#### Electives

- » MARD006 Monitor and control compliance with legislative requirements
- » MARF032 Apply medical first aid on board ship
- » MARF038 Manage provision of medical care on board a vessel Learning resources, facilities and equipment
- » MARF043 Operate survival craft, rescue boats and lifesaving appliances (proficiency in survival craft)
- » MARG008 Manage a vessel and its crew
- » MARK010 Manoeuvre and handle a ship in all conditions
- » MARO011 Transmit and receive information by the Global Maritime Distress and Safety System (GMDSS)

#### Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), lecturer developed PowerPoint presentations, handouts, workbooks, text books compass and divider set, stationery and class sets of Nories Nautical Tables.

Facilities and equipment may include access to maritime vessels, access to navigational simulators, engine room simulators and stability simulators and full equipped classrooms.

#### Work placement information

There is no work placement requirement for this course.



#### Career opportunities

- » Ship's master

## MAR60220 Advanced Diploma of Maritime Operations [Master Unlimited]

TAFE ID: BFW9 | CRICOS code: 103424H



### Why choose this course?

For a career as a Master in the maritime industry this qualification provides you with the skills and knowledge you need to meet the academic requirements for certification as a Master Unlimited as described in **Marine Orders 71 (Masters and Deck Officers) 2014**  – Seagoing Qualifications (Version six) under the **Navigation Act 2012**. 

This qualification provides you with the practical skills and knowledge appropriate to the management of a vessel in the area of marine safety, bridge and cargo operations, stability, marine law, ship management, construction and maintenance. You will also learn vessel handling skills, navigational safety and command operations as well as management skills required for this industry. If you who wish to enter this course must meet the following Australian Maritime Safety Authority (AMSA) requirements:

- » have completed at least 12 months documented qualifying seagoing service in charge of a navigation watch on vessels greater than 500 gross tonnage (>500 GT), while holding a certificate of competency as a Watchkeeper Deck and on vessels on voyages of at least 24 hours' duration.

Based on any certificates or qualifications that you may already hold, you may be required to undertake additional short course qualifications as specified by AMSA. This is an AMSA requirement for certification for all seafarers.

This course is currently cited as meeting some of the requirements for certification as a Master Unlimited as described in **Marine Orders 70 and 71(2014)**  under the **Navigation Act 2012**  by AMSA.

### Admission requirements

To be assessed for entry into this course you must:

- » submit a comprehensive resumé outlining your work experience, employment history and qualifications;
- » have completed the equivalent of Australian Year 12;
- » provide proof of an IELTS score (academic) of 7.0 with no band score less than 7.0 or equivalent for direct entry into the advanced diploma level (without commencing at the diploma level which has an IELTS 6.0 requirement);
- » have completed the MAR50320 Diploma of Maritime Operations [Watchkeeper Deck] or MAR50320 Diploma of Maritime Operations [Master less than 500 GT].


In addition you must:

- » be part of an AMSA approved engineer cadet program of at least three years' duration and appropriate qualifying sea-time OR
- » have completed the following documented qualifying seagoing service – a Certificate of competency, which demonstrates at least 12 months of qualifying seagoing service on vessels at least 750 kW propulsion power while holding an Engineer Watchkeeper certificate OR
- » the equivalent of which at least nine months was on vessels using propulsion of the kind to which the certificate relates OR
- » hold an Engineer Watchkeeper certificate of competency or any other certificate that AMSA considers to be at least equivalent to an Engineer watchkeeper.

You will need a certificate of competency to be qualified to work in the Australian maritime industry and on Australian or international vessels in international waters. You must also be properly trained to work in your role in the maritime industry. Based on any certificates or qualifications that you may already hold, you may be required to undertake additional short course qualifications as specified by AMSA. This is an AMSA requirement for certification for all seafarers. The fees may be up to AUD \$10,000 depending on your training.

### Additional requirements

Full certification will require achievement of the MAR60220 Advanced Diploma of Maritime Operations (Master Unlimited), with seagoing service and other requirements.

More information is available at the AMSA website [amsa.gov.au](http://amsa.gov.au).  You are encouraged to refer to this website on a regular basis as frequent changes may occur.

College	February intake	July intake
South Metropolitan TAFE Fremantle campus		

### Course units

To achieve this qualification, you must demonstrate competency in 26 core units.

### Core units

- » HLTAID011 Provide First Aid
- » MARA023 Manage trim, stability and stress of a vessel
- » MARB042 Manage reported defects, damage, repairs and maintenance of a vessel
- » MARC055 Operate remote controls of propulsion plant, engineering systems and services
- » MARD006 Monitor and control compliance with legislative requirements
- » MARF032 Apply medical first aid on board ship
- » MARF035 Contribute to fire prevention and firefighting (basic firefighting)
- » MARF036 Coordinate search and rescue operations
- » MARF037 Follow vessel security procedures (security awareness training)
- » MARF038 Manage provision of medical care on board a vessel
- » MARF039 Manage safety and security of vessel, crew and passengers
- » MARF041 Observe personal safety and social responsibility (PSSR)
- » MARF043 Operate survival craft, rescue boats and life-saving appliances (proficiency in survival craft)
- » MARF044 Prevent, control and fight fires on board a vessel (advanced firefighting)
- » MARF046 Survive at sea in the event of vessel abandonment and personal survival techniques (PST)
- » MARG008 Manage a vessel and its crew
- » MARH020 Forecast weather and oceanographic conditions to plan a safe passage
- » MARH021 Manage the navigation of a vessel
- » MARH023 Use of electronic chart display and information system to maintain the safety of navigation (ECDIS)
- » MARH024 Use of radar and other bridge equipment to maintain safety of navigation
- » MARK010 Manoeuvre and handle a ship in all conditions

- » MARN014 Plan and manage safe loading, unloading, securing and stowage of cargo
- » MAR0009 Maintain a safe navigational watch
- » MAR0011 Transmit and receive information by the Global Maritime Distress and Safety System (GMDSS)
- » MAR0012 Transmit and receive information by visual signalling
- » RIWHS202E Enter and work in a confined space

### South Metropolitan TAFE Fremantle campus

**Tuition fee** \$12,440 | **Resource fee** \$6,056 | **Materials fee** \$0  
**Duration** two semesters (12 months)

### Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), lecturer developed PowerPoint presentations, handouts, workbooks and text books.

Facilities and equipment may include access to maritime vessels, access to navigational simulators, engine room simulators and stability simulators and full equipped classrooms.

### Work placement information

There is no work placement requirement for this course.

### Career opportunities

- » Ship's master

## MAR50320 Diploma of Maritime Operations [Watchkeeper Deck]

TAFE ID: AC52 | CRICOS code: 105104H

### Why choose this course?

Get qualified for a career in the maritime industry with this diploma. During your studies you will participate in a range of essential experiences such as fire fighting in simulated environments, practising water survival skills and rescuing others in distress. As part of your studies you will learn how to tie seaman's knots and hitches to ships in rough waters.

You will be challenged to develop your ability to lead and manage a crew on any sized vessel. The course includes skills training in instructing the ship's crew on watch keeping, wheelhouse operations, environmental management, routine maintenance, keeping records and logbooks, communications and stability.

This qualification enables you to work as a master or chief mate on vessels less than 500 gross tonnage in any operating area and as watchkeeper deck officer on vessels of any gross tonnage and in any operating area.

With this diploma you are qualified to perform the duties or functions of any of the following:

- » a master on ships less than 24 metres (foreign going);
- » a chief mate on ships with less than 3000 gross tonnage (GT);
- » a watchkeeper deck officer; and
- » a watchkeeper deck officer on ships with less than 3000 gross tonnage (GT).

### Admission requirements





To be assessed for entry into this course you must:


- » submit a comprehensive resumé outlining your work experience, employment history and qualifications;
- » have completed the equivalent of Australian Year 12;
- » provide proof of an IELTS score (academic) of 6.0 with no band score less than 6.0 or equivalent; and
- » have 36 months of sea time to achieve Australian Maritime Safety Authority (AMSA) requirements.

### Additional requirements

Legislative and regulatory requirements are applicable to this qualification. This qualification meets some of the requirements for certification by the Australian national regulatory body the AMSA as a master of a commercial vessel less than 500 gross tonnage (GT) or Watchkeeper deck as defined in Marine Orders and the International Convention on Standards of Training Certification and Watchkeeping for Seafarers (STCW).

The AMSA certification of competency will require you to:

- » have the MAR50320 Diploma of Maritime Operations - Watchkeeper Deck;
- » hold or have held certificates of competency as defined in **Marine Order 71**; 
- » have qualifying sea service as defined in **Marine Order 71**; 
- » have completed STCW short courses as defined in **Marine Order 71**; 
- » hold a valid AMSA certificate of medical fitness;
- » have a final AMSA assessment pass; and
- » meet any other regulatory requirements as defined in **Marine Order 71**. 

More information is available at the AMSA website [amsa.gov.au](https://www.amsa.gov.au).  You are encouraged to refer to this website on a regular basis as frequent changes may occur.

College	February intake	July intake
South Metropolitan TAFE Fremantle campus	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### Course units

To achieve this qualification, you must demonstrate competency in 22 units comprising:

- » 19 core units; and
- » three electives.

### Core units

- » HLTAID011 Provide First Aid
- » MARA017 Maintain seaworthiness of the ship (ship stability)
- » MARA025 Monitor, loading, unloading, securing and stowage of cargo





- » MARF031 Apply leadership and team working capability
- » MARF035 Contribute to fire prevention and firefighting (basic firefighting)
- » MARF037 Follow vessel security procedures (security awareness training)
- » MARF041 Observe personal safety and social responsibility (PSSR)
- » MARF044 Prevent, control and fight fires on board a vessel (advanced firefighting)
- » MARF046 Survive at sea in the event of vessel abandonment and personal survival techniques (PST)
- » MARF047 Monitor compliance with legislative requirements
- » MARH022 Plan and conduct a passage and determine position
- » MARH023 Use of electronic chart display and information system to maintain the safety of navigation (ECDIS)
- » MARH024 Use of radar and other bridge equipment to maintain safety of navigation
- » MARJ008 Ensure compliance with pollution prevention requirements
- » MARK011 Manoeuvre the ship
- » MARN011 Maintain seaworthiness of the ship (ship construction)
- » MARO009 Maintain a safe navigational watch
- » MARO012 Transmit and receive information by visual signalling
- » RIIWHS202E Enter and work in a confined space

#### South Metropolitan TAFE Fremantle campus

**Tuition fee** \$11,920 | **Resource fee** \$4,986 | **Materials fee** \$0  
**Duration** two semesters (12 months)

#### Electives

- » MARF032 Apply medical first aid on board ship
- » MARF043 Operate survival craft, rescue boats and lifesaving appliances (proficiency in survival craft)
- » MARO011 Transmit and receive information by the Global Maritime Distress and Safety System (GMDSS)

#### Learning resources, facilities and equipment

Learning Management System (LMS), lecturer developed PowerPoint presentations, handouts, workbooks, text books compass and divider set, stationery and class sets of Nories Nautical Tables.

Facilities and equipment may include access to maritime vessels, access to navigational simulators, engine room simulators and stability simulators and full equipped classrooms.

#### Work placement information

There is no work placement requirement for this course.

#### Career opportunities

- » Watchkeeper deck


Students can continue to the **MAR60220 Advanced Diploma of Maritime Operations [Master Unlimited]** (see page 3–4)




# MARINE ENGINEERING

Year 12 equivalent plus resumé

## MAR50120 Diploma of Marine Engineering [Engineer Class 3 Near Coastal]

 six months

or **MAR50120 Diploma of Marine Engineer [Engineer Watchkeeper Specialist]**

 12 months

## MAR60120 Advanced Diploma of Marine Engineering [Class 1] Engineer Class 1 [Motor]

 12 months

An IELTS score (Academic) of 6.0 with no band less than 6.0 or equivalent is required for entry into the diploma and pathway into the advanced diploma.

For direct entry into the advanced diploma level an IELTS score (Academic) 7.0 with no band less than 7.0 or equivalent is required.

## MAR50120 Diploma of Marine Engineering [Engineer Class 3 Near Coastal]

TAFE ID: AC31 | CRICOS code: 103426F



### Why choose this course?

This maritime qualification prepares you for a career as a chief engineer. During your studies you will develop skills in fire prevention and firefighting, on board leadership and teamwork, vessel security procedures, personal safety and social responsibility, and survival craft and rescue boat operation. In addition, you will study pollution prevention, vessel compliance monitoring, maritime engineering calculations and operational mathematics and how to work in confined spaces.

This will allow you to work:

- » as a chief engineer on vessels with inboard engines with propulsion power up to 3000 kilowatts within the exclusive economic zone (EEZ);
- » as a chief engineer or second engineer on vessels with outboard engines with unlimited propulsion within the EEZ;
- » as an assistant, under the direct supervision of the chief engineer; and
- » in the engine room of a vessel up to 80 metres long with propulsion power up to 3000 kilowatts.



### Admission requirements

To be assessed for entry into this course you must:


- » submit a comprehensive resumé outlining your work experience, employment history and qualifications;
- » have completed the equivalent of Australian Year 12;
- » provide proof of an IELTS score (academic) of 6.0 with no band score less than 6.0 or equivalent; and
- » have 36 months of sea time to achieve Australian Maritime Safety Authority (AMSA) requirements.



### Additional requirements

Legislative and regulatory requirements are applicable to this qualification. This qualification meets some of the requirements for certification by the Australian national regulatory body the Australian Maritime Safety Authority (AMSA) as an Engineer Class 3 Near Coastal as defined in Marine Order 505. AMSA certification of competency will require:

- » completing the MAR50120 Diploma of Marine Engineering - Engineer Class 3 Near Coastal;
- » holding or have held certificates of competency as defined in National Standards for Commercial Vessels (NSCV) Part D;
- » qualifying sea service as defined in the NSCV Part D;
- » meeting the medical and eyesight requirements specified in NSCV Part D;
- » having passed a final AMSA assessment; and
- » meeting any other regulatory requirements as defined in the NSCV Part D.

More information is available at the AMSA website [amsa.gov.au](http://amsa.gov.au).  You are encouraged to refer to this website on a regular basis as frequent changes may occur.

College	February intake	July intake
South Metropolitan TAFE Fremantle campus		



### Course units

To achieve this qualification, you must demonstrate competency in 19 core units.



### Core units

- » HLTAID011 Provide First Aid
- » MARF031 Apply leadership and team working capability
- » MARF035 Contribute to fire prevention and firefighting (basic firefighting)
- » MARF037 Follow vessel security procedures (security awareness training)
- » MARF041 Observe personal safety and social responsibility (PSSR)
- » MARF043 Operate survival craft, rescue boats and life-saving appliances (proficiency in survival craft)
- » MARF044 Prevent, control and fight fires on board a vessel (advanced firefighting)
- » MARF046 Survive at sea in the event of vessel abandonment and personal survival techniques (PST)
- » MARF047 Monitor compliance with legislative requirements
- » MARJ008 Ensure compliance with pollution prevention requirements
- » MARL045 Apply basic principles of naval architecture
- » MARL054 Demonstrate basic knowledge of marine auxiliary boilers

- » MARLO55 Demonstrate basic knowledge of marine auxiliary machinery and equipment
- » MARLO56 Demonstrate basic knowledge of marine control systems and automation
- » MARLO57 Demonstrate basic knowledge of marine diesel engines and systems
- » MARLO58 Demonstrate basic knowledge of marine electrical systems
- » MARLO60 Demonstrate knowledge of ships and ship routines
- » MARLO61 Perform basic marine engineering calculations
- » RIIWHS202E Enter and work in a confined space

#### South Metropolitan TAFE Fremantle campus

**Tuition fee** \$5,960 | **Resource fee** \$4,023 | **Materials fee** \$0  
**Duration** one semester (six months)

#### Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), lecturer developed PowerPoint presentations, handouts, text books, coastal and celestial navigation equipment and Global Maritime Distress and Safety System (GMDSS) communications equipment.

Facilities and equipment may include access to maritime vessels, access to navigational simulators, engine room simulators and stability simulators and full equipped classrooms.



#### Work placement information

There is no work placement requirement for this course.



#### Career opportunities

- » Marine engineer

## MAR60120 Advanced Diploma of Marine Engineering (Class 1) Engineer Class 1 (Motor)

TAFE ID: AC38 | CRICOS code: 103750E



#### Why choose this course?

For a career in marine engineering, this is the qualification to choose. You will study mechanics, thermodynamics, electro technology and naval architecture.

During your studies you will learn about electrical, electronic and control engineering along with the operation and maintenance of marine engineering plant and equipment.

This qualification is suitable for people working in the maritime industry who seek Australian Maritime Safety Authority (AMSA) certification in the capacity of:

- » engineer class 1 - Standard of Training, Certification and Watchkeeping (STCW) chief engineer unlimited; or
- » engineer class 2 - STCW second engineer unlimited on ships.

Successful completion of this course requires sea time (seagoing service time being the total of all of your individual working days onboard vessels), plus the AMSA oral examination that enables students to obtain the AMSA certificate.

More information is available at the AMSA website [amsa.gov.au](http://amsa.gov.au). You are encouraged to refer to this website on a regular basis as frequent changes may occur.



#### Admission requirements

To be assessed for entry into this course you must:

- » submit a comprehensive resumé outlining your work experience, employment history and qualifications;
- » have completed the equivalent of Australian Year 12;
- » provide an IELTS score (academic) of 7.0 with no band score less than 7.0 or equivalent for direct entry into the advanced diploma level (without commencing at the diploma level which has an IELTS 6.0 requirement); and
- » complete the MAR50120 Diploma of Marine Engineering [Engineer Class 3 Near Coastal] or [Engineer Watchkeeper Specialist].

In addition you must:

- » be part of an AMSA approved engineer cadet program of at least three years' duration; OR
- » have completed the following documented qualifying seagoing service:
  - › a certificate of competency which is at least 12 months of qualifying seagoing service on vessels at least 750 kilowatts (kW) propulsion power while holding an Engineer Watchkeeper certificate; OR
  - › its equivalent of which at least nine months was on vessels using propulsion of the kind to which the certificate relates; OR
  - › if holding an Engineer Watchkeeper certificate of competency or any other certificate that AMSA considers to be at least equivalent to an Engineer Watchkeeper.






You will need a certificate of competency to be qualified to work in the Australian maritime industry and on Australian or international vessels in international waters. You must also be properly trained to work in your role in the maritime industry.





Based on any certificates or qualifications that you may already hold, you may be required to undertake additional short course qualifications as specified by AMSA. This is an AMSA requirement for certification for allseafarers. The fees may be up AUD \$10,000 depending on your training.

### Additional requirements

The AMSA certification of competency will require you to:

- » have the MAR60120 Advanced Diploma of Marine Engineering Class 1 qualification;
- » hold or have held certificates of competency as defined in **Marine Order 72**,  which sets out the requirements for eligibility, training and experience requirements to become an engineer under the **Navigation Act 2012**. 
- » have qualifying sea service as defined in **Marine Order 72**; 
- » have completed STCW short courses as defined in **Marine Order 72**; 
- » hold a valid AMSA certificate of medical fitness; and
- » have a final AMSA assessment pass; and
- » meet any other regulatory requirements as defined in **Marine Order 72**. 

Successful completion of this course requires sea time plus the AMSA oral examination that enables students to obtain the AMSA certificate.

College	February intake	July intake
South Metropolitan TAFE Fremantle campus		

### Course units

To achieve this qualification, you must demonstrate competency in 14 units comprising:

- » 13 core units; and
- » one elective.

### Core units

- » MARLO38 Apply advanced principles of marine electrotechnology
- » MARLO39 Apply advanced principles of marine engineering thermodynamics
- » MARLO40 Apply advanced principles of marine mechanics
- » MARLO41 Apply advanced principles of trim, stability and stress
- » MARLO47 Demonstrate advanced knowledge of marine auxiliary boilers
- » MARLO48 Demonstrate advanced knowledge of marine auxiliary machinery and systems
- » MARLO49 Demonstrate advanced knowledge of marine control systems and automation
- » MARLO51 Demonstrate advanced knowledge of marine electrical systems
- » MARLO53 Demonstrate advanced knowledge of ship operations and maintenance
- » MARF039 Manage safety and security of vessel, crew and passengers
- » MARD006 Monitor and control compliance with legislative requirements
- » MARB044 Operate and maintain ship power systems exceeding 1,000 volts
- » MARF045 Provide leadership and managerial capability

### South Metropolitan TAFE Fremantle campus

**Tuition fee** \$14,160 | **Resource fee** \$562 | **Materials fee** \$0  
**Duration** two semesters (12 months)

#### Elective

- » MARLO50 Demonstrate advanced knowledge of marine diesel engines and systems

#### Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), lecturer developed PowerPoint presentations, handouts, workbooks, and text books.

Facilities and equipment may include access to maritime vessels, access to navigational simulators, engine room simulators and stability simulators and the marine mechanical and electrical workshop.

#### Work placement information

There is no work placement requirement for this course.

#### Career opportunities

- » Marine engineer (Class 1 or 2)

## MAR50120 Diploma of Marine Engineering [Engineer Watchkeeper Specialist]

TAFE ID: AC62 | CRICOS code: 103426F

### Why choose this course?

Prepare for a career in the maritime industry as an engineer watchkeeper by completing this technically challenging qualification. Improve your employability in the maritime industry as this course offers scope for you to advance to the next higher level qualification.

On successful completion of this course you will be qualified to be chief engineer for larger, more powerful vessels enabling you to perform all of the work required of a marine engine driver. You could also find employment on larger vehicular ferries and tourist vessels or on coastal cargo vessels servicing remote or island communities and some fishing 'mother-ships'. Further employment options include work on smaller offshore oil and gas supply boats.





### Admission requirements


To be assessed for entry into this course you must:

- » submit a comprehensive resumé outlining your work experience, employment history and qualifications;
- » have completed the equivalent of Australian Year 12;
- » provide proof of an IELTS score (academic) of 6.0 with no band score less than 6.0 or equivalent; and
- » have 36 months of sea time to achieve Australian Maritime Safety Authority (AMSA) requirements.

### Additional requirements

Legislative and regulatory requirements are applicable to this qualification. This qualification meets some of the requirements for certification by the Australian National regulatory body the Australian Maritime Safety Authority (AMSA) as an Engineer Watchkeeper (STCW Engineer Watchkeeper Unlimited). AMSA certification of competency will require you to:

- » have completed the MAR50120 Diploma of Marine Engineering - Engineer Watchkeeper;
- » hold or have held certificates of competency as defined in **Marine Order 72**; 
- » have qualifying sea service as defined in **Marine Order 72**; 
- » completed a STCW short courses as defined in **Marine Order 72**; 
- » hold a valid AMSA certificate of medical fitness;
- » have passed a final AMSA assessment; and meet any other regulatory requirements as defined in **Marine Order 72**. 

More information is available at the AMSA website [amsa.gov.au](http://amsa.gov.au).  You are encouraged to refer to this website on a regular basis as frequent changes may occur.

College	February intake	July intake
South Metropolitan TAFE Fremantle campus		

### Course units

To achieve this qualification, you must demonstrate competency in 30 units comprising;

- » 19 core units; and
- » 11 electives.

### Core units

- » HLTAID011 Provide First Aid
- » MARF031 Apply leadership and team working capability
- » MARF035 Contribute to fire prevention and firefighting (basic firefighting)
- » MARF037 Follow vessel security procedures (security awareness training)
- » MARF041 Observe personal safety and social responsibility (PSSR)
- » MARF043 Operate survival craft, rescue boats and life-saving appliances (proficiency in survival craft)
- » MARF044 Prevent, control and fight fires on board a vessel (advanced firefighting)
- » MARF046 Survive at sea in the event of vessel abandonment and personal survival techniques (PST)
- » MARF047 Monitor compliance with legislative requirements
- » MARJ008 Ensure compliance with pollution prevention requirements
- » MARL045 Apply basic principles of naval architecture
- » MARL054 Demonstrate basic knowledge of marine auxiliary boilers
- » MARL055 Demonstrate basic knowledge of marine auxiliary machinery and equipment
- » MARL056 Demonstrate basic knowledge of marine control systems and automation
- » MARL057 Demonstrate basic knowledge of marine diesel engines and systems
- » MARL058 Demonstrate basic knowledge of marine electrical systems
- » MARL060 Demonstrate knowledge of ships and ship routines
- » MARL061 Perform basic marine engineering calculations
- » RIWHS202E Enter and work in a confined spacemanagement principles

### South Metropolitan TAFE Fremantle campus

**Tuition fee** \$11,920 | **Resource fee** \$5,410 | **Materials fee** \$0  
**Duration** two semesters (12 months)

### Electives

- » MARA012 Contribute to basic cargo operations on liquefied gas tankers
- » MARA013 Contribute to basic cargo operations on oil and chemical tankers (basic oil and chemical)
- » MARB038 Maintain and repair marine electrical and electronic equipment
- » MARB039 Maintain and repair shipboard machinery and equipment
- » MARB044 Operate and maintain ship power systems exceeding 1,000 volts
- » MARCO46 Employ tools, equipment and materials in a shipboard context

- » MARF032 Apply medical first aid on board ship
- » MARLO42 Apply basic principles of marine electrotechnology
- » MARLO43 Apply basic principles of marine engineering thermodynamics
- » MARLO44 Apply basic principles of marine mechanics
- » MARLO59 Demonstrate basic knowledge of marine steam turbines and main boilers

#### Learning resources, facilities and equipment

Learning Management System (LMS), lecturer developed PowerPoint presentations, handouts, workbooks, text books compass and divider set, stationery and class sets of Norries Nautical Tables.

Facilities and equipment may include access to maritime vessels, access to navigational simulators, engine room simulators and stability simulators and full equipped classrooms.

#### Work placement information

There is no work placement requirement for this course.

#### Career opportunities

- » Marine engineer



Students can continue to the **MAR60120 Advanced Diploma of Marine Engineering (Class 1) Engineer Class 1 (Motor)** (see page 8–9)

#### Fee information

There are three types of fees required.

- » **Tuition** – International student tuition fees are set on a commercial basis and are paid as a whole of course fee.
- » **Resource** – These are mandatory fees paid to your TAFE college each semester. These fees are a fixed payment determined by each unit of enrolment. Resources fees are charged for items you will use during your course, for example if you are studying a hospitality course it will be the food that you use; or an art and design course may include paint.
- » **Materials** – These fees are for materials you will keep for use during and after your studies, for example personal protective equipment, text books, uniforms etc.

Tuition fees are current at the time of printing and reviewed annually. Resource and materials fees may apply and these vary between campus locations. For more information about fees please visit [tafeinternational.wa.edu.au/fees](https://tafeinternational.wa.edu.au/fees).

#### Work placement hours

Work placement hours are subject to change and may vary between campus locations.

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