



# CAREERS IN THE MARITIME INDUSTRY

A collaboration between ACCE and Offshore & Specialist Ships Australia (OSSA)



**ON DEMAND WEBINARS**  
for Students and Educators!

Learn about careers at sea and hear from current maritime professionals

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 **EDUCATORS:** <https://youtu.be/N1wMKbACIPE>

 **STUDENTS:** <https://youtu.be/EWnwIOC6Wk>

## Introduction

Welcome to the exciting world of work in The Maritime industry!

This workbook has been prepared by The Australian Centre for Career Education in collaboration with the Offshore and Specialist Ships Australia (OSSA) to help young people in secondary schools prepare for the world of work in a dynamic and global industry, The Maritime Industry.

The workbook provides important information on how to start your career journey in many exciting occupations that are part of the Maritime Industry. Students can read about careers that are portable and provide opportunities for travel, exploration and adventure while employed in one of the fastest growing industries in the world.

Career exploration activities and career stories from real seafarers and captains set the scene for an unparalleled career journey. Completing the student activities will help to identify the wide range of occupations that make up OSSA's membership. Students will have the chance to locate a career of interest and then contact OSSA to find out about the best pathways to realise their dream career in the Maritime Industry.

The Maritime Industry has many career opportunities and is the gateway for a career that can provide personal and professional fulfilment.

Take time exploring this exciting industry, your future career could start here. Enjoy the journey!

Penne Dawe  
CEO, The Australian Centre  
for Career Education

## Acknowledgments

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The Australian Centre for Career Education and The Offshore and Specialist Ships Australia respectfully acknowledge the Traditional Owners of Country throughout Australia and pay respect to Aboriginal and Torres Strait Islander people as custodians who have cared for this land and its waters for over 60,000 years.



## Offshore & Specialist Ships Australia Ltd

The Maritime Industry is truly an exciting place to choose for your future career. The opportunity to work either at sea or ashore is outlined in this workbook brought together by Offshore & Specialist Ships Australia (OSSA) and Australian Centre for Career Education (ACCE) which we hope will spark your interest and lead you to investigate further.

The Maritime Industry is one of the oldest professions in the world. Transporting goods by sea has been, and is today, a lifeline for world trade. The ships of today are high tech requiring skills that were unheard of only a few short years ago. Whether it be the loading/ discharging and transporting of cargo, the chatter of people on a cruise liner, the buzz of scientific sea bed mapping or exploration along an ice shelf, there is something for everyone.

OSSA members have a wealth of experience they are keen to share to help you determine which is the right pathway for you to consider. OSSA will explain the skills needed for different jobs within the industry. Talk to a Captain or a Marine Engineer or a Terminal Supervisor or a Shipping Manager. The job opportunities are many and varied.

So listen to what may be available, ask questions, challenge the future, learn. Do you have the desire to become part of a global industry?

We look forward to opening up the Maritime Industry to you.

Ross Brewer

*Chairman*

*Offshore & Specialist Ships Australia Ltd.*



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# Careers AT SEA

**A career at sea provides the opportunity for adventure, challenge, personal and professional development and travel. The maritime industry has many career opportunities.... Some of which you may be familiar with and others that you are about to learn more about!**

## **What exactly is the Maritime Industry?**

*“Careers and jobs that relate to working on a ship at sea on international voyages, ships that engage in coastal voyages and ships that work within ports and harbours”*

This includes working at sea AND on land.

### **Maritime Industry Sectors:**

- Merchant Navy – Commercial shipping
- Ferries and harbour charter boats
- Fishing
- Workboats
- Superyachts
- Offshore oil and gas



***Dive into the Maritime industry through these virtual reality ship tours***

The maritime industry is an important source of food, energy, transportation and leisure. With international import and export being so important to the Australian economy, having maritime professionals ready to sail the seas with cargo is essential – meaning lots of jobs for years to come! Not only are seagoing positions such as captains, chief engineers and other officers plentiful, but there is a range of opportunities in trades (marine engineering, electronic and technology officers, cooks), boat building and vessel maintenance which are available to both women and men.

Did you know there are many land-based opportunities within the maritime industry too? To ensure smooth maritime operations marketing, human resources administration, logistics and accounting professionals are all essential – could this be you?

### **Essential skills**

There are a number of skills that are important when working at sea such as a strong work ethic, strong listening and communication skills, good judgement and decision making capabilities and strong depth perception.

Maritime employment ashore (on land) requires individuals who are team players with strong leadership and communication skills. The ability to manage other people, delegate to others and speak in public are also highly valued.

***Do you have what it takes to work in the maritime industry?***

***Read on to learn more!***

*The Maritime sector has an estimated annual revenue of \$6.88 billion and added approximately \$2.32 billion to the Australian economy in 2018.*



# Meet the PEOPLE

## Katie – Deck Cadet

<https://youtu.be/5niSRPC5-H0>



**Where does Katie work and where is her ship sailing?**

**What are the different types of tasks that Katie undertakes on a daily basis?**

**What is the most rewarding part of Katie's job?**

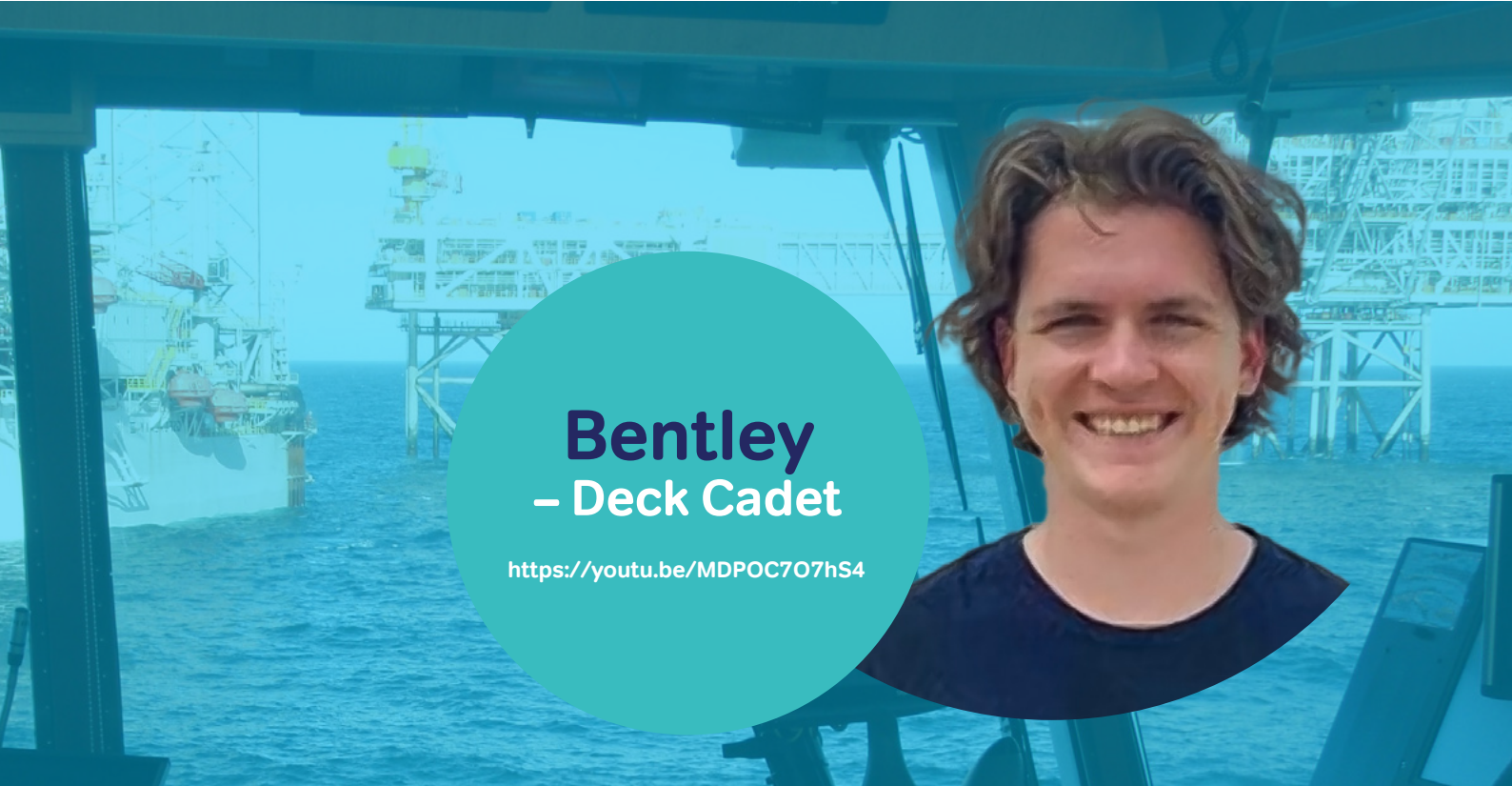
**What is a mentor? Why do you think a mentor is important?**  
**(Hint: use the internet to help you).**

### KEY DUTIES – Deck Cadet

- Learn the skills to maneuver multi-million dollar ships in port and at offshore installations.
- Handles ropes and wires, and operates mooring equipment when berthing and unberthing.
- Stands lookout watches at sea and adjusts the ship's course as directed.
- Assists with cargo operations using on-board equipment and stows and secures cargo.
- Patrols ships to ensure safety of the vessel, cargo and passengers.
- Performs routine maintenance and checks on deck equipment, cargo gear, rigging, and lifesaving and fire fighting appliances.

Source: [www.jobsandskills.gov.au](http://www.jobsandskills.gov.au)

**Australia's coastline is over 60,000 kilometres in length and our search and rescue region covers more than 10% of the Earth's surface.**



## Bentley – Deck Cadet

<https://youtu.be/MDPOC7O7hS4>

**What does Bentley love about his job?**

**What is Bentley's dream job?**

To find out more about this job visit [Labour Market Insights page](#)

<https://www.jobsandskills.gov.au/data/labour-market-insights> and make a note of the key tasks that this occupation involves

**What does Bentley suggest are useful subjects for Year 11 & 12 students to undertake and why?**

**What personal skills are important for someone working as a Deck Cadet:**



Ten per cent of the world's sea trade passes through Australian ports and over 95% of Australian exports are transported by sea.



**Ian**  
**– Captain**  
<https://youtu.be/B7DSfFNbvGw>

*Where did Ian undertake his training/course?*

*What does Ian love about his job?*

*What is Ian most proud of?*

*What are some exciting things Ian has encountered in his travels?*

*What does Ian say are the rewards of working at sea?*

*What does Ian suggest are the most important skills when working at sea?*

**KEY DUTIES**  
**– Captains**

A ships captain is a high-grade licensed mariner who holds ultimate command and responsibility of a vessel and is responsible for the safety of the entire ships crew and passengers. The captain is responsible for the safe and efficient operation of the ship – including its seaworthiness, safety and security, cargo operations, navigation, crew management, and legal compliance.







**Lorrae**  
**– Captain**  
<https://youtu.be/5BL9CnaIJMg>

**What did Lorrae do after Year 12?**

**What was the One and All? And where did this vessel travel and when?**

**What was Lorrae's job on the One and All?**

**Where does Masterclass 1 Certificate of Competency allow Lorrae to work?**

**What are some other occupations on the sea that Lorrae mentions?**

**What does Lorrae think are the best things about the maritime industry?**





**Rob**  
**– Captain**  
<https://youtu.be/dHDFmLKnhF8>

**What is Rob's formal qualification? What does this allow him to do?**

**What type of vessel has Rob captained?**

**Where has Rob sailed?**

**What other activities has Rob undertaken on the sea?**

**Why does Rob suggest a career in commercial shipping is rewarding?**

*Per capita, Australia has more cruise passengers than any other nation, making it the fourth-largest cruise market in the world.*



# Crystal – Subsea Project Engineer

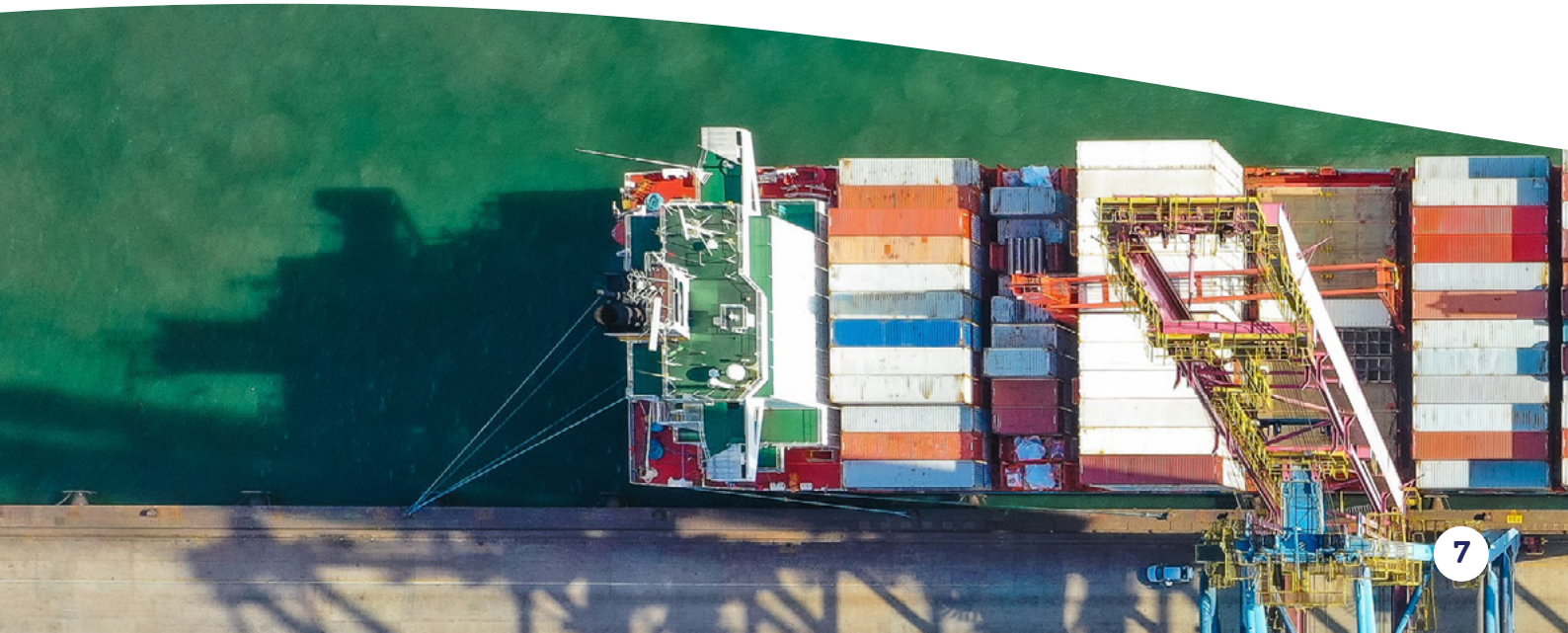
[https://www.youtube.com/  
watch?v=im4630\\_FBEI](https://www.youtube.com/watch?v=im4630_FBEI)

**What subjects did Crystal undertake in Year 12?**

**What does a specialisation in Ocean Engineering involve?**

**What did Crystal do on the Rockwater2?**

**What are the benefits that Crystal describes of working both offshore and onshore?**





# Kameron – Chief Engineer

<https://www.youtube.com/watch?v=TvAjQx9KztA>

*What vessel is Kameron currently working on and where is he stationed?*

*What did Kameron's cadetship include?*

*What engineering systems do marine engineers work with?*

*What are some of the benefits of a life at sea?*





## Jim – Chief Engineer

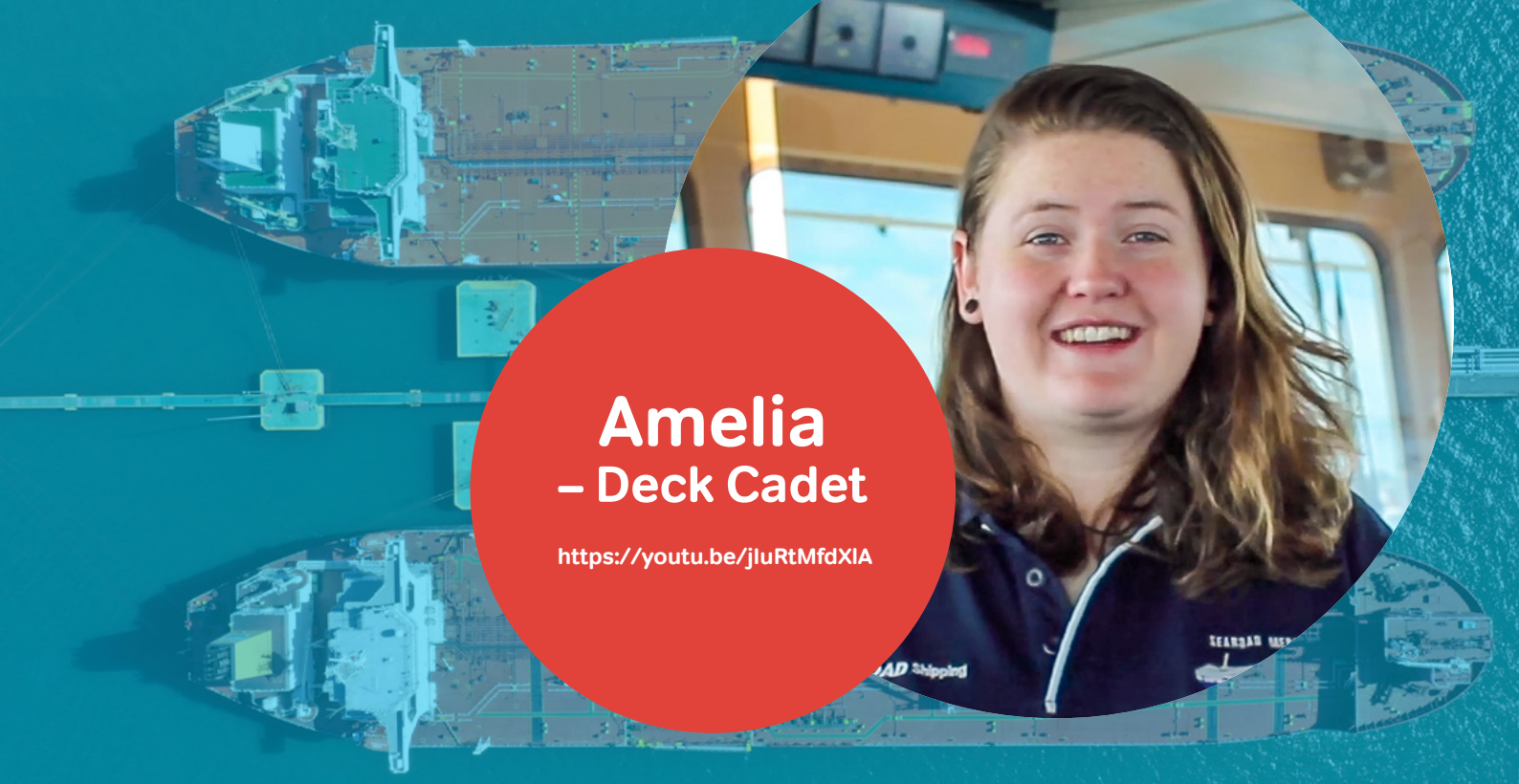
<https://www.youtube.com/watch?v=7JghCoJXjfs>

**What does Jim enjoy most about working in the maritime industry?**

**What is Jim in charge of as the Chief Engineer?**

**Why do you think Jim suggests it is important to be a curious with good problem solving skills?**





# Amelia – Deck Cadet

<https://youtu.be/jluRtMfdXIA>

**What does Amelia love about her career? What are two examples Amelia gives?**

**What did Amelia recently get to do in Devonport?**

**What Year 12 subjects did Amelia say she found the most useful in her job? What advice did she have for anyone thinking about working in the Maritime Industry?**





# Kirsteen – Tugmaster

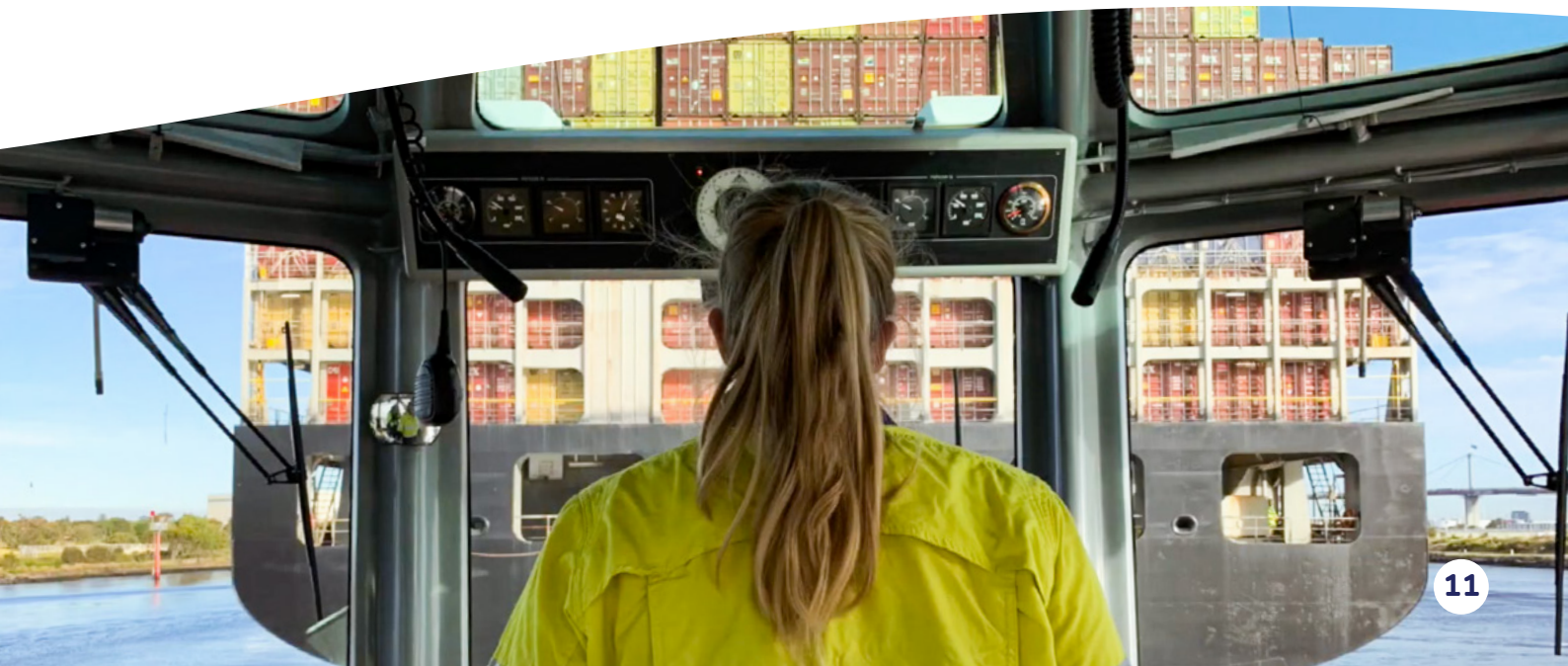
<https://youtu.be/w-0XINfEq4c>

**What workers are involved in the launch of Kirsteen's tug from the wharf?**

**What does Kirsteen say is the best part of her job? What can be challenging about her job?**

**What keeps Kirsteen's job interesting?**

**What do you need to always be aware of as a boat handler?**





# Jobs ASHORE

There are a number of jobs ashore (on land) that qualified people with relevant experience can work in. Could you see yourself working in any of these occupations?

## Port & Terminal Managers

Responsible for the supervision of vessel discharge and loading, operations of port cranes and all heavy equipment in the port.

Storage and distribution of all cargoes by sea, road, air and rail.

Responsible for implementing all strategic operations, dangerous cargo handling and segregation.

Maintain quality service delivery at all times, health and safety Leadership, financial management and maintaining quality stakeholder relationships.

## Cargo Planners

Also referred to as supercargoes, superintendents and cargo planners.

Responsible for the stowage and operational flow of all cargo movements inward and outward from vessels at cargo berths and terminals.

Daily planning and coordination of a given number of ships, both in port and at sea.

Optimise and maximise cargo vessels, taking into account both vessels and port restrictions.

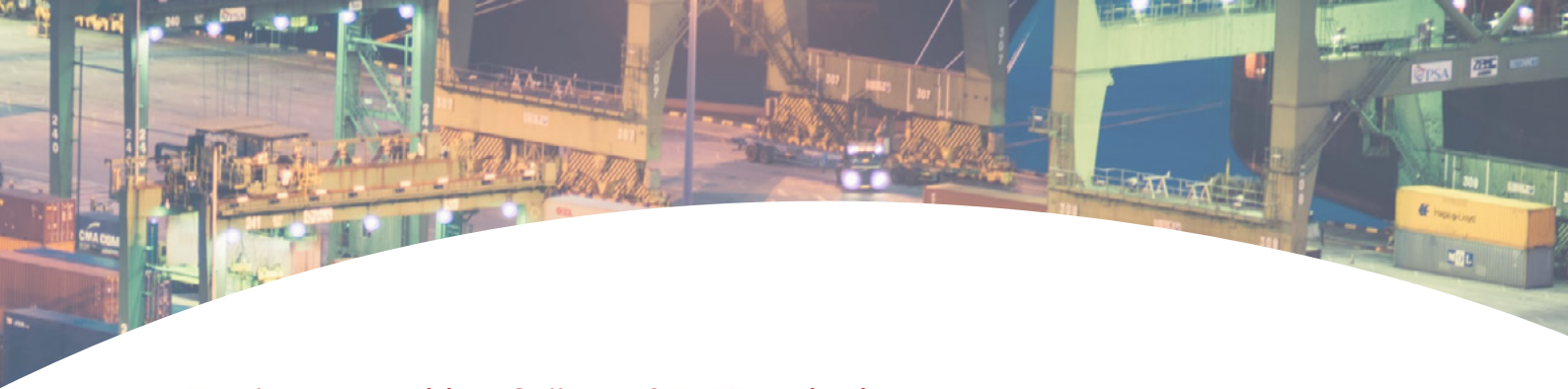
Coordinating port activities in terms of loading and discharge operations, taking into account the safety of the ship, crews and cargoes.

Capacity maximisation controls

Focus on cost efficiencies

Minimise time in port for ships by the preparation of efficient stowage plans and coordination with agents and stevedores.





## Teachers At Maritime Colleges & TAFE Institutions

Responsible for vocational training through to Bachelor and Post Graduate Degrees and Doctorates, spanning the Areas of the following :

Maritime Engineering & Hydrodynamics

Maritime Business & International Logistics

Ocean Seafaring

Coastal Seafaring and VET Courses.

Some of these Teaching Responsibilities are as follows:

Prepare, coordinate and/or conduct lectures, tutorials, practical classes, workshops and field excursions in both on-campus and online environments.

Develop teaching and assessment resources.

**Note:** *An Initial background as a Seagoing Officer is essential, with further tertiary teaching qualifications as required.*

## Marine Surveyors

Involved with the surveying, inspection and approval of all marine equipment, vessels and cargoes, in order to ensure compliance standards as mandated are being maintained at all times.

Responsibilities include the following:

Act as ship owners representative for project management

Participate as vessel class standards representative or flag state responsible person.

Management of vessel dockings and repairs.

Attendance as insurance loss adjustors or expert witness.

New construction of vessels, management and supervision.

Responsible for all maritime surveys

Vessel condition inspections and surveys.

## Harbour Master

Responsible for the enforcement of the regulations of a particular port or harbour in order to ensure the safety of navigation, the security of the harbour and correct operation at all times of the port facilities.

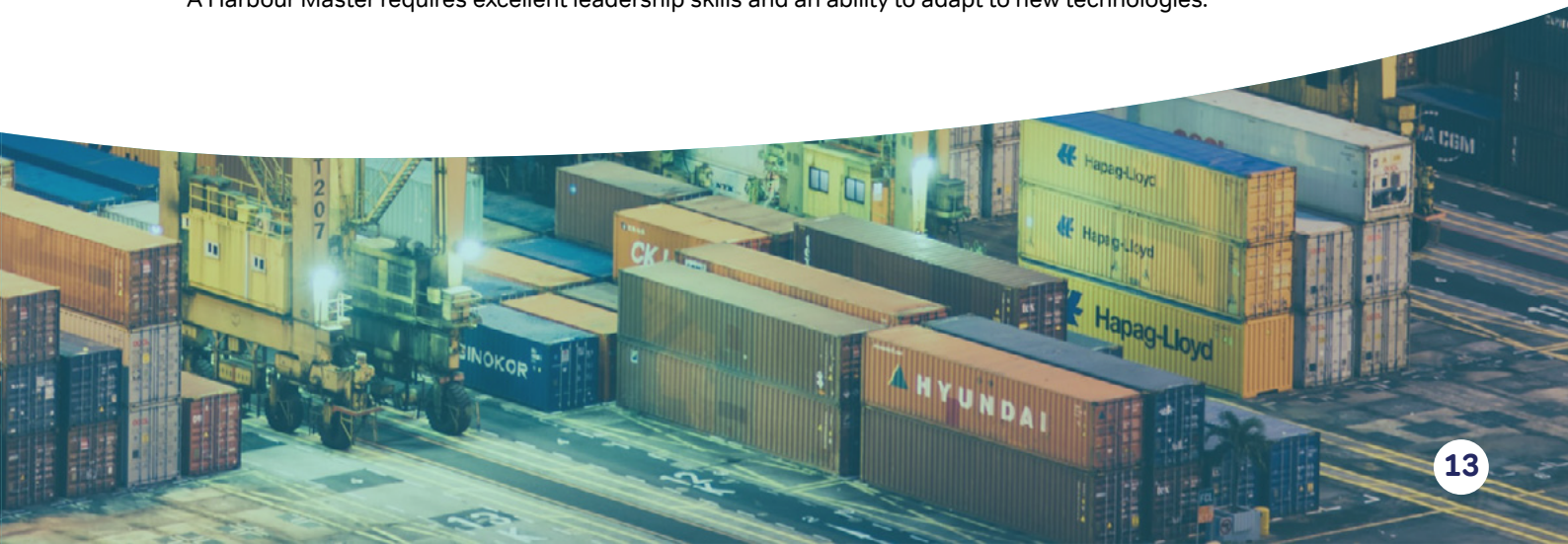
The issuing of all local maritime safety notifications.

Responsible for the provision & maintenance of all local maritime safety notifications.

Responsible for the maintenance and provision of navigational aids within the port, with local powers to detain, caution or arrest any person committing offences within the port or tidal reach of the port.

Harbour Masters must be skilled and experienced mariners with the ability to oversee all operational and management aspects of the harbour, including all logistics and operations, security and emergency management.

A Harbour Master requires excellent leadership skills and an ability to adapt to new technologies.



**CLICK THE LINKS!**



**Regulatory Authorities**

- International Maritime Organisation
- Coastguard
- Maritime Accident Investigation
- Surveying

**Others**

- Charitable Organisations
- Trade Associations

**Education and Training**

**Port and Harbour**

- Pilotage
- Tug Boats
- Ferries
- Vessel Traffic Services
- Port Operations
- Workboats

**Seagoing Positions**

- Nautical Training Centres
- Colleges and Universities
- Bridge
  - Captain
  - Chief Officer
  - Junior Officer
  - Deck Cadet
- Engine Room
  - Chief Engineer
  - First Engineer
  - Junior Engineer
  - Engine Cadet
- Catering
  - Cook
  - Steward
- Electrician/Electronics

**Business Services**

- Maritime Law
- Marine Insurance
- Classification Societies
- Shipbroking

- Deck
  - Senior Deck Rating
  - Deck Rating
  - Engine Rating
  - Trainee Rating

**Ship Types**

**Ship Management**

- Human Resources
- Commercial
- Fleet Management
- Ship Construction
- Procurement
- Naval Architecture
- Safety and Compliance

- Offshore
- Diving
- Construction
- Passenger
- RORO
- Tanker
- Bulk Carrier
- Container
- Special Purpose
- Super Yachts
- Fishing



# A case STUDY: Katie Marshall

I grew up in country Victoria in a non-seafaring family, and by the time I finished high school I had my sights set on a medical degree. Seafaring as a career was something that I had never been told about, and the idea hadn't crossed my mind until I first went sailing.

I was lucky enough to sail on the STS Young Endeavour for 11 days just before I started university, and from then on, I was hooked. I completed a year in my Biomedical Science degree before abandoning that to travel and spent 7 months onboard the sail training ship Picton Castle, sailing from Canada to Africa to the Caribbean and back to Canada. Once returning home to Melbourne I spent 4 months on and off volunteering on the SV Tenacious – a tall ship custom designed and built for people of all abilities – while she was visiting Australia from the UK.

After these experiences I knew I wanted to make a career at sea, so I enrolled in a Bachelor of Applied Science (Nautical Science) at the Australian Maritime College and started my Pre-Sea training.

During this training I learnt basic navigation and safety skills and about the operations of commercial vessels. I got my STCW Certificate of Safety Training which allowed me to apply for a cadetship, and I started my employment in the offshore industry.

Since then I have worked on various Offshore Support vessels – including platform supply, offtake support, and anchor handling tug supply vessels. My work has been based out of Darwin, Broome, Dampier, and the Bass Strait and have sailed to Singapore. I have experienced a wide range of the offshore industry and have learnt a great deal about different types of vessel operations.

I completed my second year at Maritime College in 2018/2019, and gained a much more thorough understanding of why we do what we when we're at work. Subjects included marine navigation, navigational watchkeeping, ship stability, marine transportation, weather watchkeeping, and nautical mathematics. On top of core subjects there are a range of week-long short courses that covered fire-fighting, survival at sea, medical first aid at sea, radio operation and more.

I really enjoyed my time studying at the Maritime College in Launceston – it is an amazing little community of seafarers and people interested in all aspects of the industry from all around the globe, set in a small city in one of the most beautiful states in Australia. Amongst the study and socialising, I often spent my weekends exploring the natural wilderness of Tasmania and now that part of the world will always hold a special place in my heart.

As well as my training at the Maritime College, I have also completed a training course for Dynamic Positioning – a type of computer system which interfaces with the vessels systems to allow it to stay exactly in one position so we are able to undertake cargo transfer operations within close proximity to an offshore installation. This has been invaluable to my career and learning to drive a ship in such a high stakes environment is pretty incredible too.

I'm now on the verge of finishing my cadetship and gaining my Officer of the Watch Unlimited certification, so hopefully within the next couple of months I'll be able to say that after nearly 4 years I'm fully qualified!

My aspiration is to one day get my Master's Certificate and to be one of the few female Captains operating on the Australian coast. I want to be involved in community outreach and get more young women involved in an amazing career that isn't reserved just for the boys anymore. I would love to see more young women attending Maritime College and working out on the water in all sorts of different roles.

One day I would like to go back to my traditional sailing roots and travel across the world on an old square rigged ship – but I think I might leave that until my retirement.

Katie Marshall



# A case STUDY: Bentley Fitzgerald

Being a 6th generation seafarer, I've always felt the sea has been a part of my life. Hearing stories from my father and grandfather about the various work they did was always very exciting and it left me wanting to make my own memories at sea. But, what actually happened while they were on the job was always a bit of a mystery, making it more appealing to give it a go.

After taking a gap year after school I began my pre-sea training at the Australian Maritime College. I packed my bike and surfboard in the car and jumped on the Spirit of Tasmania heading for Launceston. The first weekend after orientation I went to the local food and wine festival, which was a great way to get to know other students at the college.

The pre-sea course started off with safety training including firefighting, damage control and sea survival. The main part of the course consisted of three subjects; Shipboard operations, Navigation and Engine operations with other short courses combined. In these we learnt the basic principles behind the whole operation of a ship as well as navigation skills. All of these have proven to be very useful throughout my sea time!

After finishing the pre-sea training, I was fortunate to secure a sponsored cadetship with Searoad to complete the required 18 months of sea time to allow me to study for my Watchkeepers. Searoad run two Ro-Ro (Roll on – Roll off) ships operating across Bass Strait between Melbourne and Devonport. These vessels are unique as they are in port every day and sail overnight. During my time on the Searoad Mersey II and Searoad Tamar, I have been able to work in all different areas with some great mentors, and have gained a thorough understanding of the operations involved on board.

Working with the Deck Officers on the bridge has been fantastic in preparing me for my Watchkeepers before heading back to college; learning how to use the sextant with celestial navigation, how to maintain a proper watch and going through rules and regulations relevant to the operation of the bridge and the ship. On the Mersey II, I was able to be a part of the commissioning of the worlds first roll on/off LNG bunker system which posed many challenges but being able to observe the process was very valuable. I have been involved in yearly surveys for both vessels to ensure they are up to standard. Worked with the Chief Mate on numerous occasions in preparing a confined space entry permit for tank inspection and tank cleaning. I also had the opportunity to work with the engineers in maintaining many of the operating machinery and systems on board.

One of the best things about being a Deck Officer is that the qualification is recognised around the world making it possible to work anywhere. Whether it's on cruise ships or luxury yachts sailing to beautiful destinations or on a container ship doing laps around the world.

I hope to one day get involved in the offshore industry around Australia as it would be a great challenge setting anchors for rigs and manoeuvring the ship in and around the rigs. Another job I'd like to try one day is on the Australian ice breaker; a research vessel that also supplies the Antarctic research base. In this role, deck officers navigate through the ice monitoring the weather and ice thickness to get to the station safely.

Overall, I've found working in the shipping industry to be even better than I had expected. I would even consider it to be more of a lifestyle rather than a career as it often feels like a home away from home. I have great memories of quiz nights and darts competitions with the whole crew. I would definitely encourage more young women and men, like myself, to consider a working in the maritime industry.

Bentley Fitzgerald



# A case STUDY: Amelia Fitzgerald

I grew up in a seafaring family just outside Melbourne. My dad began working in the industry before I was born, but for years I wasn't quite sure what he did. Going to sea has always intrigued me, but at the end of year 12 I was advised by my parents to get some more life experience before joining the industry.

I decided to take a GAP year working in the UK, which was an amazing experience! I had been offered a place in a Bachelor of Science degree so at the end of my GAP year I accepted. I completed my degree and while I really enjoyed it, I realised I didn't want to spend the rest of my life working in a lab.

That's when I decided my future involved going to sea.

I was accepted into the Bachelor of Applied Science (Nautical Science) and began at the Australian Maritime College in Tasmania.

Being able to study in Tasmania and gain the practical experience necessary for this career was an amazing experience, even though it was slightly interrupted by COVID-19.

Despite the pandemic I was able to complete my Pre-Sea training, gaining my STCW certification, and was fortunate enough to get a Cadetship with the Port Authority of New South Wales in September 2020. Since then, I have worked on Engage tugs in Geelong and on a Searoad Roll-on Roll-off vessel which operates between Melbourne and Devonport.

Working on the tugs has allowed me to experience the arrival and departure procedures of ships from a different perspective which I have found really valuable.

Being on the Roll-on Roll-off vessel enabled me to take part in cargo operations, navigation and maintenance of a large vessel which I enjoyed immensely and look forward to continuing.

While I'm still at the very beginning of my career, I am so excited for the future and the opportunities it holds.

Amelia Fitzgerald



# What SUBJECTS should I consider?

Some subjects that may be useful if considering a career in the maritime industry include:

**English** – an ability to communicate with colleagues and other seafaring professionals verbally and via the written word is essential.

**Maths** – confidence in a range of mathematical applications is useful, especially when using and repairing specialised equipment.

**Physics** – ever wondered how a ship can float, but a pebble sinks the bottom if thrown into the ocean? This all comes down to physics - think displacement, buoyancy and density – an understanding of these concepts is beneficial.

**Geography** – the ability to read maps and an overall understanding of locations of countries and continents would be useful.

**Environmental Science** – an understanding of the interconnecting systems of the earth and an interest in sustainability and pollution reduction could be applied to a career in maritime.

**Outdoor and Environmental Studies** – an interest and enjoyment of working outdoors and within nature are essential to a career at sea.

**VET subjects** – there is a range of VET subjects related to trades like plumbing, electrical, engineering, automotive, kitchen operations and integrated technologies that could be applied to a career in maritime. Find out more here: <https://www.vcaa.vic.edu.au/curriculum/vet/vce-vet-programs/Pages/Index.aspx>

The Maritime Industry Reference Committee's (IRC) 2021 Industry Outlook Report identifies the top priority skills for the Maritime workforce in the next three to five years as:

- Health and safety
- Operational skills
- Digital literacy
- Risk management.

Source: <https://ceav.vic.edu.au/media/253470/irc-maritime-overview-2021.pdf>

The Maritime IRC's top five generic skills in order of importance are listed as:

- Managerial / Leadership
- Learning agility / Information literacy / Intellectual autonomy and self-management (adaptability)
- Design mindset / Thinking critically / System thinking / Solving problems
- Communication / Virtual collaboration / Social intelligence
- Technology.

78% of employers in the Maritime sector reported experiencing a skills shortage during the last 12 months. Shortages were reported in the following occupations:

- Small vessel (<35m) masters
- Engineers (various)
- Marine engine drivers
- Deckhands
- Navigation.

*This means jobs are available and employers are ready to employ young people with an interest in the seafaring industry!*


WATCH NOW


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 **STUDENTS:** <https://youtu.be/EWnwIOC6Wk>

# Study Options and SCHOLARSHIPS in Seafaring

Institute	Courses	Qualification Level	Scholarships
<b>Australian Maritime College – University of Tasmania (TAS)</b>	Maritime Engineering and Hydrodynamics Global Logistics and Maritime Management Ocean Seafaring Coastal Seafaring VET and Short Courses	Degrees, Certificates, Diplomas & Short Courses	<a href="https://www.amc.edu.au/study/scholarships">https://www.amc.edu.au/study/scholarships</a>
<b>TAFE VIC – Gippsland</b>	Maritime Operations	Certificates	<a href="https://www.tafegippsland.edu.au/study_with_us/scholarships">https://www.tafegippsland.edu.au/study_with_us/scholarships</a>
<b>Maritime Training Services – Remote Learning &amp; Geelong, VIC</b>	Maritime Operations Marine Radio	Certificates	
<b>South Metro TAFE – Fremantle (WA)</b>	Maritime Operations Marine Mechanical Technology Marine Engineering	Certificates, Diplomas Skill Sets & Short Courses	
<b>TAFE NSW</b>	Marine Craft Construction Marine Engineering Marine Mechanical Maritime Operations Sailmaking	Certificates, Diplomas Skill Sets & Short Courses	<a href="https://www.tafensw.edu.au/enrol/payment-funding/scholarships/search">https://www.tafensw.edu.au/enrol/payment-funding/scholarships/search</a>
<b>TAFE SA - Defence Industries and Naval Shipbuilding</b>	Naval Shipbuilding	Short Course	<a href="https://www.tafesa.edu.au/industry/defence-industries">https://www.tafesa.edu.au/industry/defence-industries</a>
<b>Maritime Industry Australia Limited</b>	On the job training	Short course	
<b>Shipping Australia</b>	On the job training	Short course	

# Work experience and Structured WORKPLACE LEARNING

Work Experience and Structured Workplace Learning provides students with the opportunity to get hands-on experience and insight into industry. It is an invaluable career planning activity which assists young people to build employment skills, make professional connections and discover more about careers of interest.

Use the table below to make a note of some possible organisations within the maritime industry you could contact to request a work experience or structured workplace learning placement – remember there are jobs available at sea and ashore!

Company	Address	Phone	Website/Email







[jobsandskills.gov.au](https://www.jobsandskills.gov.au) is a fantastic resource that provides extensive information on a range of different professions. Take a look at the Labour Market Insights page <https://www.jobsandskills.gov.au/data/labour-market-insights> and learn even more about a career in the Maritime Industry and answer 5 important questions in the table below.

**Definition:** Explain what the job involves.

**Tasks:** What kind of activities do these professionals do on a daily basis?

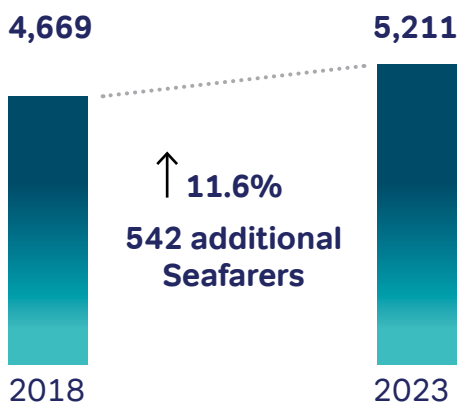
**Weekly pay:** How much do these employees earn each week?

**Number employed:** How many Australians work in this field?

**Study options:** What and where can you study to work as a professional in this industry?

Job Title	Summary	Tasks	Weekly Pay	Number Employed	Median Age
1. Ship's Masters					
2. Marine Engineers					
3. Deck Hands					
4. Marine Transport Professionals					

### Estimated growth in Seafarers in five years

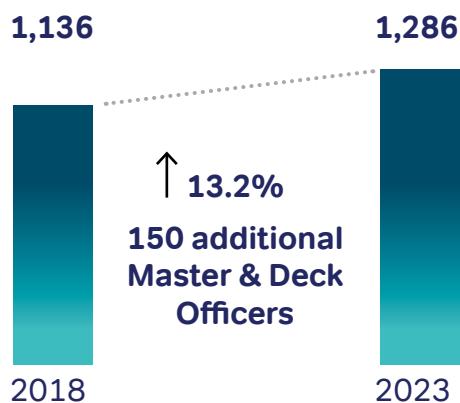


Response rate: 93%, n=37  
Organisations employing Seafarers

Note: "Other" category is included in reported 2018 total

Growth rate based on estimated changes in Master & Deck Officers, Engineer Officers & Ratings

### Estimated growth in Master & Deck Officers in five years



Response rate: 97%, n=33  
Organisations employing Master & Deck Officers

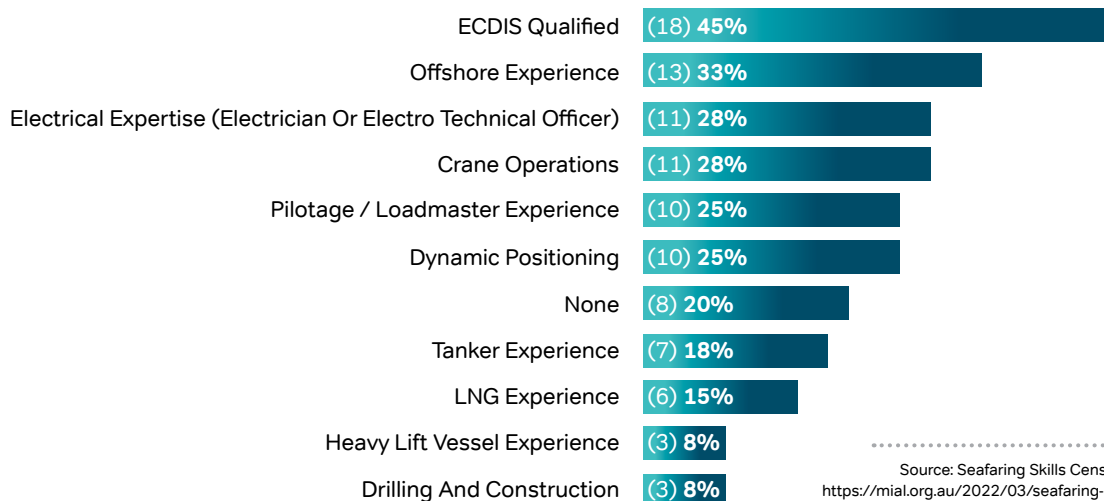
*"Seafarers" refers to Individuals directly employed on board vessels in Australia*

The information shown here is the most current available as of March 2024. Check the Maritime Industry Australia site for future reports – [mial.org.au/work/reports/](https://mial.org.au/work/reports/)

## Specialist Skills

Employers in the maritime industry need staff to have skills and qualifications beyond the "basic" or standard qualifications. The skills shown here are not only needed in order to complete further qualifications, but they will also "give employers confidence that an individual is competent as well as qualified."

### Specialist skills for Seafarers



Source: Seafaring Skills Census  
<https://mial.org.au/2022/03/seafaring-skills-census/>

n=40 Organisations that employ Seafarers

Note: Percentages do not add up to 100% as Organisations could select multiple options

# Maritime Occupation SNAPSHOTS

## Ships Master

**Tasks:** Ensures compliance with regulations pertaining to safety at sea and protection of the marine environment.

Directs the activities of the deck crew for navigational support tasks, berthing and unberthing, maintenance, cleaning and painting of superstructures, and the repair and replacement of defective deck gear and equipment.

Employed:  
3,700

Median Age:  
48

Female Share:  
5%

## Marine Engineers

**Tasks:** Plans, controls and co-ordinates the operational and maintenance requirements of a ship's propulsion and domestic plant and equipment.

Operates plant and equipment and performs routine maintenance on ship's systems including mechanical, electrical, hydraulic, pneumatic, steam generating, and fire prevention and control systems.

Employed:  
1,900

Median Age:  
46

Female Share:  
4%

## Marine Surveyors

**Tasks:** Examines and approves design plans of hulls and equipment such as main propulsion engines, auxiliary boilers and turbines, electrical power generating plant, refrigeration and air-conditioning plant and pumping systems.

Conducts periodic surveys throughout a ship's life to ensure standards are maintained.

Carry out inspections of vessel damage and cargo damage and report to insurers.

Employed:  
490

Median Age:  
52

Female Share:  
2%

## Deck and Fishing Hands

**Tasks:** Handling ropes and wires, and operating mooring equipment when berthing and unberthing.

Assisting with cargo operations using on-board equipment and stowing and securing cargo.

Patrolling ships to ensure safety of the vessel, cargo and passengers.

Employed:  
7,100

Median Age:  
47

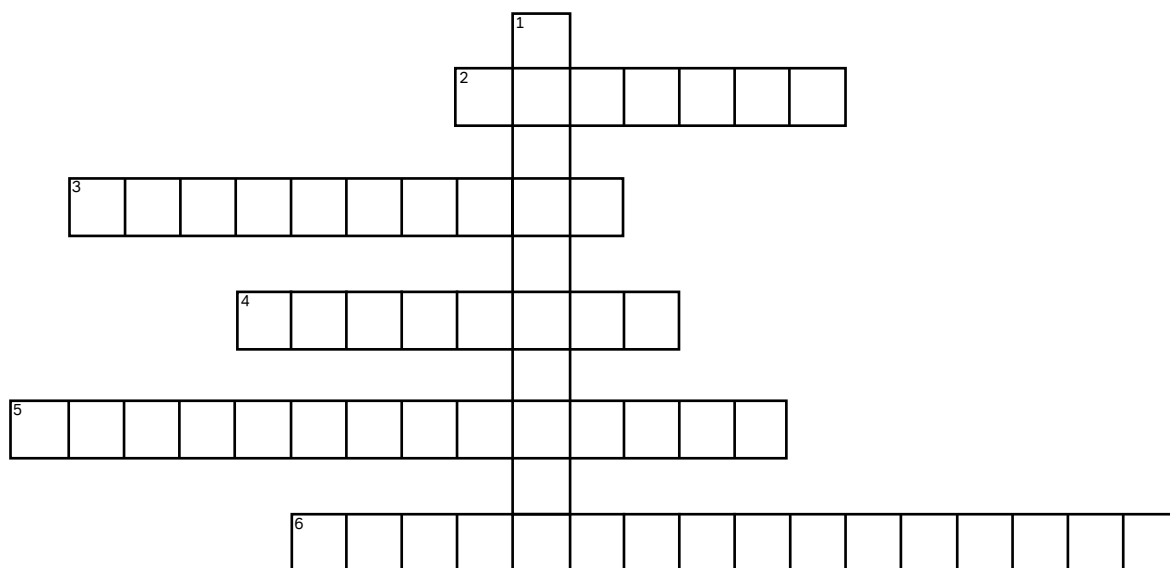
Female Share:  
9%

Fast facts obtained from:  
<https://ceav.vic.edu.au/media/253470/irc-maritime-overview-2021.pdf>

Maritime Occupation Snapshots source: <https://www.jobsandskills.gov.au>

Occupation Growth Images source: 2018 Seafaring Skills Census, Maritime Industry Australia Ltd  
<https://ceav.vic.edu.au/media/253471/irc-maritime-skills-report-2020.pdf>

# Crossword PUZZLE



## Down:

1. Accurately determining the position and controlling the movement of a vessel along a desired course

## Across:

2. Head of the ship
3. Ocean between Victoria and Tasmania (4, 6)
4. Assists the captain to carry out duties
5. A short student placement (4, 10)
6. Works on all ships systems to keep operational (6, 10)

## Online Quiz:

Careers in the Maritime Industry



<https://www.tryinteract.com/share/quiz/5f9b81ddc3985a00146681c7>



### **Australian Centre for Career Education**

Building A  
61 Civic Drive, Greensborough, VIC 3088

Ph: 03 9433 8000  
[www.ceav.vic.edu.au](http://www.ceav.vic.edu.au)

### **Offshore & Specialist Ships Australia**

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