



Maritime

BOATING HANDBOOK

2011-2012



WEAR IT



LIFEJACKET – WEAR IT

Lifejackets save lives. But a lifejacket will not save your life if you are not wearing it. Remember:

- You must carry a lifejacket for every person on board
- Children under 12 must wear a lifejacket at most times
- Wear one at times of heightened risk such as crossing a coastal bar
- PWC drivers and passengers must wear them at all times
- Don't just have lifejackets on board, make sure you and your passengers wear them.

For more information see our [website](#) or call the Info line.

**YOU'RE THE SKIPPER
YOU'RE RESPONSIBLE!**

Welcome to the new boating season

It's my pleasure to introduce this year's Boating Safety Handbook.

This handbook sets out the basic rules for safe and responsible boating on our waterways.

Boating is a wonderful experience to share with family and friends, and the great majority of skippers act safely and responsibly on the water.

However, recent boating incidents on New South Wales waterways are a grim reminder that the marine environment can be harsh and unforgiving, and skippers are responsible at all times for the safety of the boat and all those afloat.

Recent reforms to the lifejacket regulations are aimed at making boating safer for everyone on all NSW waterways. Lifejackets must now be worn at certain times of heightened risk on recreational vessels.

Merely carrying a lifejacket on board does not save lives. Capsize or man-overboard situations occur suddenly and without warning. Locating and donning lifejackets once in the water can be difficult or impossible, depending on the experience of those involved and other factors such as current, weather, wave size, and water temperature.

The rules governing the wearing of lifejackets on NSW waterways were developed following extensive consultation with the boating community, and are set out in full within this handbook.

Safe boating everyone.



Duncan Gay
NSW Minister for Roads & Ports



New lifejacket rules introduced in November 2010 apply on NSW waterways, see page 20 for full details.

BEACON REGISTRATION

WHY IT MATTERS



Your 406 MHz distress beacon registration details provide essential information for rescuers in an emergency.



Not only will rescuers know where you are, they will know who you are and who to contact for more information which may assist in the rescue effort.



This information is critical, especially if your beacon is not GPS equipped, your location can be determined much faster when your beacon is registered.



Registration of 406 MHz distress beacons is mandatory.

You can register and update your information online with the Australian Maritime Safety Authority.



Australian Government

Australian Maritime Safety Authority

www.amsa.gov.au/beacons

1800 406 406

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Boat Driving Licence

The speed at which a boat is driven determines whether a person needs to be licensed.

Any person who is the master of a powered vessel operating recreationally on NSW waters at a speed of 10 knots (18.5kph) or more must have a boat driving licence.

Ten knots is the speed at which most accelerating boats will start to plane – that is rise up and skim on top of the water instead of ploughing through it.

The exception is that anyone who drives a personal watercraft (PWC) at ANY speed must have a PWC Licence.

Types of Licence

General Boat Licence

A licence for people aged 16 years and over to drive a powered vessel at 10 knots or more (excluding a PWC).

Young Adult General Licence

A restricted licence for those aged from 12 to under 16 years. A Young Adult licensee must:

- (1) Be accompanied by the holder of a General Boat Licence when travelling at 10 knots or more.
- (2) Never exceed 20 knots.
- (3) Never travel at 10 knots or more after sunset and before sunrise.
- (4) Never travel at 10 knots or more when towing a person.
- (5) Not drive in any organised aquatic activity without prior approval from NSW Maritime.
- (6) Never operate a PWC unless they are the holder of a Young Adult PWC Licence.

Personal Watercraft (PWC) Licence

A special licence is required to drive a PWC regardless of the speed it is driven. Persons who hold a General Licence can upgrade to a PWC Licence at any time. A PWC Licence includes a General Boat Licence.

Young Adult PWC Licence

A restricted licence for those aged from 12 to under 16 years who wish to drive a PWC. The same restrictions which apply to the Young Adult General Licence apply to this licence.

Additionally, a Young Adult PWC Licence holder must be accompanied by a PWC Licence holder when operating at a speed of 10 knots or more.

Licence period

A General Licence or PWC Licence is available for one, three or five years. You will save money by selecting a three or five year licence. Young Adult licences are only available for one year and expire on the applicant's birthday.

Licences are initially issued as paper licences, followed by a plastic card. All PWC licences are issued as plastic photo licence cards.

Using a vessel commercially

If you intend using a vessel commercially, different requirements apply. Your vessel may need to comply with specified design and construction standards. It may need to carry safety equipment for a commercial vessel and may require a survey certificate.

While some commercial vessels can be operated using a general boat licence or PWC licence, many commercial vessels require the master and crew to hold a commercial qualification or certificate of competency. To obtain a certificate of competency you will need to meet minimum sea service requirements, complete approved training and first aid course and meet specified medical and eyesight standards.

Holders of certificates of competency as a

master, mate or coxswain are exempt from the requirement to hold a PWC or General boat driving licence.

For further information contact NSW Maritime on (02) 9563 8777 or visit the commercial vessels section online at www.maritime.nsw.gov.au.

Obtaining a boat licence

To obtain an initial General or Personal Watercraft (PWC) Licence, applicants must:

- Complete the compulsory General Licence Boating Safety Course and/or the PWC Licence Boating Safety Course;
- Provide evidence of practical boating (logbook) experience; and
- Successfully undertake the General Boat Licence test and/or the PWC Licence test.

The above requirements also apply for initial Young Adult General and Young Adult PWC licence applicants.

The Boating Safety Course(s) must be completed before the licence test(s) can be attempted. However, practical boating experience requirements can be completed at any stage.

Applicants wishing to upgrade their existing general boat licence to a PWC licence are not required to provide evidence of practical boating experience and need only comply with PWC Licence Boating Safety Course and PWC Licence test requirements.

On completion of the Boating Safety Course, practical boating experience and licence test requirements, the relevant boat licence will be issued to applicants on payment of the licence fee.

For more information on how to obtain a boat licence, contact NSW Maritime on 13 12 56 (7 days a week, 8.30am – 4.30pm) or visit our boat licensing section of the Maritime website.

Set out below are the options available to licence applicants on how to comply with the Boating Safety Course, licence test and practical boating experience requirements.

How to comply with Boating Safety Course requirements

Boating Safety Course (BSC) requirements can be met by one of the following methods:

1. By viewing the General and/or PWC Boating Safety Course presentations online.
2. By purchasing online or at any NSW Maritime Operations Centre, a DVD of the course(s) for viewing at home.
3. By attending a Boating Safety Course conducted by NSW Maritime (www.maritime.nsw.gov.au) or Marine Rescue NSW (www.marinerescuensw.com.au).

Regardless of the BSC method selected, a nominal fee applies and the applicant is issued a Certificate of Completion. On presentation of the BSC Certificate of Completion, which is valid for 12 months, applicants can sit the licence test.

How to comply with boat licence test requirements

Both the General and PWC Licence tests can only be attempted following completion of the Boating Safety Course(s) and initial PWC licence applicants must pass the General Licence test before the PWC test can be attempted.

The General Licence test comprises 40 multiple choice questions of which the first 15 must all be answered correctly. Of the remaining 25 questions a minimum of 20 questions must be answered correctly.

The PWC test contains 15 questions of which a minimum of 12 must be answered correctly. A fee is payable for each licence test attempt, which can be sat an unlimited number of times. Licence tests can be undertaken at any of the following venues:

- NSW Maritime Operations Centre
- Roads and Traffic Authority Registry
- Government Access Centre

If you attend a RTA office or GAC you must present or send your stamped application form, together with your certificate of completion and

completed logbook, to a NSW Maritime office.

When attending for a licence test, applicants must provide the BSC Certificate of Completion and acceptable Proof of Identity.

Young Adult Licence applicants must be accompanied by a parent or legal guardian who must provide acceptable proof of identity.

PWC Licence applicants must provide two passport acceptable photographs.

How to comply with practical boating experience requirements

Practical boating experience can be gained by completing a Boating Licence Practical Logbook.

Initial general and initial PWC licence applicants must undertake, in the company of an experienced skipper, a minimum of three trips in a powered vessel (excluding PWC), and under power.

An experienced skipper is a person who holds, as a minimum, a valid NSW or interstate General Licence and has held the General Licence for at least three years. Young Adult Licence holders are not considered experienced skippers for this purpose.

The vessel used to undertake practical experience must carry the prescribed safety equipment and be fitted with appropriate lights if undertaking optional night time navigation.

Details of each trip must be recorded in the logbook and be verified by the experienced skipper. The applicant and the experienced skipper must also confirm that all elements relating to practical experience competencies, as listed in the logbook, have been covered by initialling each element.

The logbook is available free of charge from any NSW Maritime Operations Centre, RTA Registry and Government Access Centre or by download from www.maritime.nsw.gov.au.

Only trips undertaken within the 12 months prior to the issue of a boat licence will be recognised for the purpose of satisfying practical experience requirements.

Alternative methods to obtain a boat driving licence

The following two options are available as alternative methods to obtain a boat driving licence.

1. Completion of a General and/or PWC Boating Education and Training Course conducted by a NSW Maritime accredited Recognised Training Provider (RTP).

On completion of the course/s (including the licence test/s), successful applicants are issued a Certificate of Completion.

The compulsory practical boating experience requirement can also be undertaken with an RTP, or the applicant can choose the logbook option.

Fees and conditions apply to attend a Boating Education and Training Course and to undertake the practical component.

A list of accredited RTPs with direct links to their websites is available by accessing NSW Maritime's website www.maritime.nsw.gov.au.

2. Successful completion of one of the following Yachting Australia (YA) courses:

- National Powerboat Training Scheme
- National Yacht Cruising Scheme
- National Motor Cruising Scheme.

YA courses are recognised as satisfying the full requirements (including the practical component) for the issue of a General Licence.

Certificates of completion issued by an RTP or YA are only valid for 12 months from the date of issue.

Other qualifications may be recognised - please call NSW Maritime on 131256 for more information.

When applying for a licence:

- An applicant must provide acceptable Proof of Identity documentation before sitting a test.
- Young Adult Licence applicants must be accompanied by a parent or legal guardian when sitting the test. Proof of Identity of the parent or guardian is also required.
- PWC Licence applicants must provide two colour passport acceptable photographs (light background). PWC Licences are plastic photo cards.
- An applicant must complete a licence application form, declare any medical condition or physical disability which may affect their ability to safely operate a boat, meet eyesight standards and pay the appropriate fees.

Remember:

You must carry your licence when doing anything for which the licence is required, and produce it for inspection when requested by a NSW Maritime officer, a Police officer or other authorised officers.

Owners of vessels must be able to identify the person driving their vessel at all times, even if the owner is not onboard at the time.

Licence holders and owners of vessels should promptly notify NSW Maritime of any changes to personal details or address, or penalties may apply. Licences sent to the wrong address can be cancelled and a reinstatement fee charged.

If your licence is not renewed within five years of its expiry date you will need to complete the entire licence process again.

Proof of Identity

To ensure the accuracy of records held by NSW Maritime, applicants must provide acceptable Proof of Identity (POI) when conducting a business transaction. Except for PWC licences, POI is not required for renewal of products.

POI documents must be original or certified copies and POI requirements can be met by providing a NSW Photo Driver's Licence and, for young adults, an Australian Full Birth Certificate.

For a full list of acceptable POI documents view the Proof of Identity brochure on our website or telephone 13 12 56.



A division of the Boating Industry Association of NSW Ltd

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Your comprehensive list of recreational marine service providers.

Boat Registration

Registration of vessels

The information contained in this section is provided as a guide only. For more detailed information contact your local NSW Maritime Operations Centre or telephone 13 12 56.

A person must be at least 16 years of age to register a vessel in NSW. The following vessels must be registered with NSW Maritime when occupying NSW navigable waters:

- Any commercial vessel.
- Power-driven vessels that are powered by an engine with a power rating of 4.0 kilowatts or more (as a guide, 4.0kw is approximately 5hp).
- Any power-driven or sailing vessel of 5.5 metres or longer.
- Every vessel subject to a mooring licence or marina berth.
- Personal watercraft (PWC).

Note: Exemptions may apply.

Transfer of registration

On sale of a registered vessel, the seller must complete the transfer and notice of disposal sections of the registration certificate and forward the notice of disposal to NSW Maritime within 21 days of the date of sale.

The transfer section must be given to the buyer, who must apply for transfer within 21 days of the date of purchase, otherwise penalties may apply.

Registration label

A registration label will be forwarded separately on payment of the annual registration fee. This must be affixed to the exterior of the vessel on the port (left) side of the hull where it is clearly visible.

On sailing vessels it must be affixed to the transom or port side.

Registration numbers

Registered vessels must display at all times their registration number on both sides of the hull in figures at least 150mm high (100mm for PWC and sailing vessels).

Sailing vessels may display the registration numbers on the transom.

The registration numbers/letters must be in a contrasting colour to the hull, solid characters (not outlines), in a clear font or style and displayed in upper case so they can be clearly identified.

Australian Builder's Plate (ABP)

Most vessels built from 1 July 2006, including imported vessels, must have an ABP affixed prior to initial registration. Displaying an ABP does not exempt vessels from the regulatory HIN requirement (see the following section).

There are two types of ABP, one for vessels under 6 metres and one for vessels over 6 metres and the plate must be permanently affixed in a position where it is clearly visible.

An ABP enhances the safety of passengers by providing key safety information that includes:

- Engine power rating and weight;
- Maximum person capacity;
- Maximum load capacity;
- Buoyancy characteristics (for vessels under 6 metres); and
- Warning statements.

Hull Identification Number (HIN)

The HIN system (or Boatcode) facilitates the identification of vessels through the affixing of a unique identifying number and provides benefits that include:

- The expansion of the Register of Encumbered Vehicles (REVS) to include vessels; and
- A numbering system that deters vessel theft and assists in the recovery of stolen vessels.

Boatcode is compulsory:

- For new vessels prior to initial registration
- On transfer of registration where the vessel has not previously been affixed with a HIN
- For second-hand vessels being registered for the first time.

Prior to purchasing a second-hand vessel, prospective buyers should contact REVS on 13 32 20 between 8:30am and 5:00pm weekdays and 9:00am and 2:00pm Saturdays.



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pacificboating.com.au


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Choosing the Right Boat

Boats are designed and built for different purposes. There are different hull shapes to suit different water conditions and loads. Before you use or obtain a boat, do some research and talk to other boat operators, manufacturers and retailers and consider the following questions:

What size boat do you need?

The right size boat will depend on the number of people you intend to carry, the amount of equipment, provisions and goods you intend to load into it, as well as the type of water conditions you expect to experience.

What will the boat be used for?

Fishing? Cruising? Water-skiing? Sailing? The design, construction, stability, flotation and maintenance will all be factors in the safety and performance of your vessel.

Where do you plan to go boating?

Boats designed for use on inland or sheltered waters are not usually suited for use in open waters or along the coast where waves are larger.

What engine power does the boat need?

Boats have both minimum power needs and maximum power limitations. Don't overpower a boat to gain more speed – a bigger engine may be unsafe by unbalancing the boat and lowering the freeboard. **It is an offence to fit an engine that exceeds the manufacturer's specifications.**

ON THE SPOT FINE \$500

Is the boat fitted with built-in buoyancy?

Boats fitted with appropriate internal buoyancy, such as foam, will remain afloat when capsized or swamped. This improves the chances of rescue and survival in the event of an incident, particularly in isolated areas or offshore.

Most boats built on or after 1 July 2006 must have an Australian Builder's Plate attached which gives safety information including buoyancy performance.

Buying a Second-Hand Boat

Buying a second-hand boat can be a good way of getting into boating. While the price of a second-hand boat should reflect its condition and specifications, extra care is required.

Unless you are experienced or specially trained it may be a good idea to get a person with appropriate marine knowledge to conduct an assessment before you make any decision to buy a second-hand vessel.

Get to know Marine Rescue NSW

Marine Rescue NSW is the State's volunteer marine rescue organisation and provides boating safety education, marine radio communications and emergency search and rescue services for recreational boaters. Get to know how Marine Rescue NSW can help make your boating safer and more enjoyable. To locate your local base, visit www.marinerescuensw.com.au.



BOATING LICENCE COURSE

THE WAY TO GET
YOUR BOATING
LICENCE



Licence
Information Hotline
(02) 9524 5678

SAFETY EQUIPMENT

Safety Equipment Table – to be carried on board		ENCLOSED WATERS	OPEN WATERS
Symbol	Item	Quantity	Quantity
	Lifejacket Type: 1 (level 150 or 100); 2 (level 50); 3 (level 50S)	1 per person*	
	Lifejacket Type 1 or level 150 or 100		1 per person*
	Anchor and chain/line	1	1
	Bailer/Bucket (vessel with open bilges) or Bilge pump (vessels with covered bilges)	1 1**	1 1**
	Compass (magnetic)		1
	Distress signal – orange smoke hand-held distress flare		2
	Distress signal – red hand-held distress flare		2
	EPIRB – 406MHz (required if two nautical miles or more offshore)		1
	Fire bucket (if no bailing bucket carried suitable for fire fighting)	1	1
	Fire extinguisher (vessels with electric start, electric motors, battery, gas or fuel stoves)	1**	1**
	Map/chart of area (paper not electronic)		1
	Marine radio (required 2 nautical miles or more offshore)		1
	Paddle or oars/rowlocks in vessels under 6m unless a second means of propulsion is fitted	1	1
	Safety label	1	1
	Sound signal (air horn/whistle/bell)	1	1
	V sheet (orange)		1
	Water (suitable for drinking)		2L per person
	Waterproof torch (floating)	1	1

* Lifejackets must be suitable for the intended wearer, in good condition, accessible, and inflatable units serviced in accordance with the manufacturer's instructions.

** Additional bilge pumps and fire extinguishers may be required for larger vessels.

NB This table does not include lifejacket wearing requirements – refer to table on page 20.

NAVIGATION LIGHTS MUST BE DISPLAYED BETWEEN SUNSET & SUNRISE & DURING TIMES OF RESTRICTED VISIBILITY

Modified Requirements	
Canoes/Kayaks	Exempt from carrying safety equipment on all waters, but hand-held marine radio or mobile phone in waterproof pouch strongly recommended.
Sailboards	Exempt from carrying safety equipment on all waters.
Kiteboards	Exempt from carrying safety equipment.
Racing shells, Surf rescue boats, Surf boats and Surf skis	Exempt from carrying safety equipment.
Rowboats, Dinghies, Small unpowered inflatable boats	Exempt from carrying safety equipment on enclosed waters if the vessel is: <ul style="list-style-type: none"> • less than 3m in length; and • not a tender; and • not carrying an engine or fuel; and • not more than 200m from nearest shore; and • operating between sunrise and sunset; and • built so as to float if swamped or capsized.
Other Inflatable Boats (if under 5m, built to stay afloat if swamped or capsized and not used as a tender).	Exempt from carrying anchor and line, bailing bucket, fire extinguisher and torch when in enclosed waters or in open waters less than 400m from shore between sunrise and sunset only. Exempt from carrying the above items plus flares and map or chart when in open waters between 400m and 2 nautical miles from shore between sunrise and sunset only.
Tenders	Exempt from carrying other safety equipment if the vessel carries a paddle or oars, a waterproof torch if operating between sunset and sunrise, a bucket, bailer or bilge pump.
Sailing vessels	<ul style="list-style-type: none"> • If less than 6m in length and in enclosed waters is not required to carry an anchor • Not required to carry bucket/bailer if it has a permanently enclosed self draining hull • When engaged in organised sail training, is not required to carry safety equipment if a power driven vessel capable of use for rescue purposes is in attendance.

NB This table does not include lifejacket wearing requirements— refer to table on page 20.

NAVIGATION LIGHTS MUST BE DISPLAYED BETWEEN SUNSET & SUNRISE & DURING TIMES OF RESTRICTED VISIBILITY

SAFETY EQUIPMENT

Modified Requirements – continued

Off the beach vessels (means an unballasted, sail-only vessel, including centreboard dinghy, windsurfer, skiff or multihull vessel, but not including a vessel with a cabin or a fixed keel)	Not required to carry safety equipment if the vessel does not have sufficient storage room.
Dragon boats/Outrigger canoes	For more information on safety equipment requirements please refer to Schedule 5, Part 2 of Marine Safety (General) Regulation 2009.
PWC	Exempt from carrying safety equipment. For tow-in surfing the PWC must be equipped with: a rescue sled, second kill switch wrapped around the handlebars, two-way communication device, dive fins, safety knife, tool kit, quick release floating tow rope with a minimum length of 7m, bow tow-line with a minimum length of 7m.

NB This table does not include lifejacket wearing requirements— refer to table on page 20.

NAVIGATION LIGHTS MUST BE DISPLAYED BETWEEN SUNSET & SUNRISE & DURING TIMES OF RESTRICTED VISIBILITY



Boating Industry Association

**Look for the
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Businesses throughout all segments of recreational boating can be found within the Boating Industry Association. These businesses have pledged to abide by our Code of Practice, giving you the peace of mind that by dealing with a BIA member, you can deal in confidence.

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Lifejackets

Lifejackets are the most important piece of safety equipment on any vessel. A lifejacket must be carried for each person on board all vessels, unless exempt. They must be 'approved' (ie meet Australian or relevant other standards) and 'appropriate' (ie suitable for the type of waterway in which you are boating and in good condition and properly maintained). They must be the correct size for the wearer or the intended wearer.

Penalties may be imposed on the owners and masters of vessels found not carrying them, or not carrying a sufficient number for the people on board the vessel, or occupants not wearing them as required.



Lifejacket types

Type I – also known as Level 150 and Level 100

This provides the highest level of buoyancy, designed to keep the wearer's head above and out of the water when unconscious. They are mainly used when boating in open waters and alpine waters. They must comply with relevant Australian or overseas standards approved by NSW Maritime. There are two kinds of type I – those with fixed buoyancy and those which are inflatable, water or manually activated.



Type I – Inflatable Lifejackets

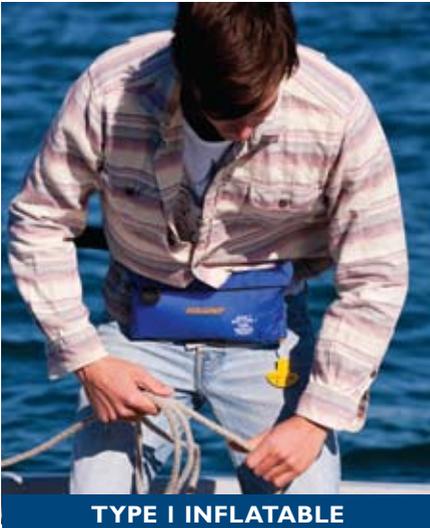
Inflatable lifejackets are becoming increasingly popular.

These CO₂ inflated garments are lighter and less cumbersome than conventional foam lifejackets and are quite versatile – they're even made as wet weather jackets and windproof vests.

However boaters should be particularly aware of the added maintenance requirements that come with this style of jacket as well as the need for detailed crew and passenger briefing on their operation.

Care should also be taken when purchasing an inflatable jacket to ensure that it conforms with Australian Standards. Inflatable jackets conforming to Australian Standards meet AS 1512 (lifejacket Type I) or AS 4758 (Level 150 or Level 100); or some overseas standards (check Maritime website). This will be clearly marked on the jacket.

As our lifejackets spend much time in a harsh environment (particularly with saltwater boaters), it is important that jackets are serviced annually by an accredited service centre or the original manufacturer. This will ensure that the jacket is in good working order. When they are serviced, checks will be carried out to ensure the bladder, reflective tapes, buckles and straps are in working order, and that the inflation system and oral inflation tube are operating correctly. For safety sake, do this annually.



TYPE 1 INFLATABLE

It is important that boaters check jackets regularly, prior to wearing. Make a visual check for damage and unscrew the gas cylinder to ensure it has not been pierced. If it has been pierced then replace it immediately. Without this occurring the jacket will not inflate.

It is important that you ensure that the cartridge is screwed in firmly. Cartridges can loosen from continual vibration whilst stowed in a car or boat. If a cylinder is loose, gas can escape through the thread upon activation.

It is also worthwhile to periodically manually inflate your jacket with the oral inflation tube, and leave it overnight. This will determine whether there are any leaks in the bladder. Remember that if the temperature in the room decreases overnight, this will affect the pressure in the bladder, so take this into consideration when assessing the air in the jacket the next morning.

Inflatable jackets are certainly very convenient but remember to be diligent with your checks and undertake regular servicing to ensure it will work when you need it.

You should follow the manufacturer's instructions or, if the manufacturer doesn't specify, you must

NOTE: Lifejackets that rely solely on oral inflation for buoyancy are not approved in NSW.

have your lifejacket serviced at least every 12 months. Penalties apply.

Some manufacturers require you to have your lifejacket serviced by them or by their authorised agent. Other manufacturers allow you to 'self service' your lifejacket provided you do so in accordance with the manufacturer's instructions. If the manufacturer allows self servicing you should be competent to do so, otherwise we recommend you get it serviced professionally. If you are self servicing, make sure your recharge kit matches your jacket.

We recommend you keep all servicing receipts (and certificates of servicing) as documentary evidence. Keeping a safety equipment log for your vessel is a good way to record replacement and servicing of all your equipment, including lifejackets.

Type 2 – also known as Level 50

This is a buoyancy vest and is not designed to keep the wearer's head above and out of the water but are manufactured using high-visibility colours and in comfortable styles. They are mainly used when boating in more sheltered enclosed or inland waters. A type 2 lifejacket must comply with the relevant Australian or overseas standards approved by NSW Maritime.



TYPE 2

SAFETY EQUIPMENT

Type 3 – also known as Level 50S

This is a buoyancy vest with the same overall buoyancy as a type 2 lifejacket. It is not required to be made in high-visibility colours. A type 3 lifejacket is mainly used for aquatic sports such as wakeboarding and waterskiing where comfort and style are important. A type 3 lifejacket must comply with the relevant Australian or overseas standards approved by NSW Maritime.



TYPE 3



Keep a record of the expiry dates for adults' Type I inflatable lifejackets. These are not recommended for children.

What lifejackets must I carry on my boat?

It is a legal requirement that most recreational vessels in NSW must carry an appropriate size and type of lifejacket for each person on board. They must be stored or placed to allow quick and easy access. Lifejackets must be either visible to passengers or their location clearly marked by an unobstructed and clearly visible sign saying LIFEJACKETS (red lettering on a white background). Stickers are available from NSW Maritime offices and service centres.

LIFEJACKETS

Open (ocean) waters (including crossing ocean bars)

Unless there is a requirement that a lifejacket must be worn, a lifejacket Type 1 must be carried for everyone on board for all vessels except Outrigger Canoes which are permitted to carry a lifejacket type 1, 2 or 3.

Enclosed waters (excluding Alpine waters)

Unless there is a requirement that a lifejacket must be worn, a lifejacket Type 1, 2 or 3 must be carried.

Alpine waters

Unless there is a requirement that a lifejacket must be worn, a lifejacket Type 1 or 2 must be carried.

When must lifejackets be worn and what type of lifejacket can be worn?

From 1 November 2010, new compulsory lifejacket wearing requirements come into effect. Lifejackets will then be required to be worn in the circumstances shown overleaf, along with the type of lifejacket that can be worn.



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Lifeguard Wearing Requirements on NSW Waterways from 1 November 2010

Boating activity / vessel type	Situation	Lifeguard options
Children under 12 years of age	<ul style="list-style-type: none"> ■ At all times in a vessel under 4.8 m ■ When in an open area of a vessel 4.8m to 8m that is underway <ul style="list-style-type: none"> On enclosed waters On open (ocean) waters On alpine waters 	<p>Type 1, 2 or 3</p> <p>Type 1</p> <p>Type 1 or 2</p>
On all boats less than 4.8m (unless specified below)	<ul style="list-style-type: none"> ■ All occupants on enclosed waters when: <ul style="list-style-type: none"> Boating at night Boating alone ■ At all times on open waters ■ At all times if the vessel is being used more than 400m from the shore to transport persons or goods between the shore and a vessel, or between vessels. ■ At all times on alpine waters: <ul style="list-style-type: none"> If wearing waders 	<p>Type 1, 2 or 3</p> <p>Type 1, 2 or 3</p> <p>Type 1</p> <p>Type 1, 2 or 3</p> <p>Type 1 or 2</p> <p>Type 1</p>
All towing	Anyone being towed at all times on all waters	Type 1, 2 or 3
Canoes and kayaks	<ul style="list-style-type: none"> ■ On enclosed waters more than 100m from shore ■ On open waters at all times ■ On alpine waters at all times 	<p>Type 1, 2 or 3</p> <p>Type 1, 2 or 3</p> <p>Type 1 or 2</p>
Off the beach sailing vessel (e.g. catamaran & centreboard boats)	<ul style="list-style-type: none"> ■ All occupants on open and alpine waters at all times 	Type 1 or 2
Sailboarding	<p>When more than 400m from shore:</p> <ul style="list-style-type: none"> ■ On enclosed waters ■ On open and alpine waters 	<p>Type 1, 2 or 3</p> <p>Type 1 or 2</p>

Boating activity / vessel type	Situation	Lifejacket options
Kiteboarding	When more than 400m from shore & kiting alone: <ul style="list-style-type: none"> ■ On enclosed waters ■ On open waters ■ On alpine waters 	Type 1, 2 or 3 Type 1, 2 or 3 Type 1 or 2
PWC (jetski)	<ul style="list-style-type: none"> ■ On enclosed waters at all times ■ On open and alpine waters at all times ■ Tow-in-surfer on open waters 	Type 1, 2 or 3 Type 1 or 2 Type 1, 2 or 3
Crossing coastal bars	All vessels, everyone on board	Type 1
Skipper's responsibility	When the skipper considers "heightened risk" situation exists: <ul style="list-style-type: none"> ■ On enclosed waters ■ On open and alpine waters 	Type 1, 2 or 3 Type 1 or 2

Other Essential Equipment

Anchors

Choose the right size and type of anchor for your vessel and the nature of the sea bed. For example, an anchor designed for rocky bottoms may not hold in sand or mud.

Bilge pump

Vessels with covered bilges are required to be fitted with a bilge pump, which should be protected by a strainer to prevent choking of the pump suction.

Bucket

Depending on the size of the vessel, at least one solidly constructed bucket of metal, robust canvas or plastic must be carried with lanyard attached. It is useful as a safety item for both bailing water out and fighting fires.

The bucket can also be used as a sea anchor.

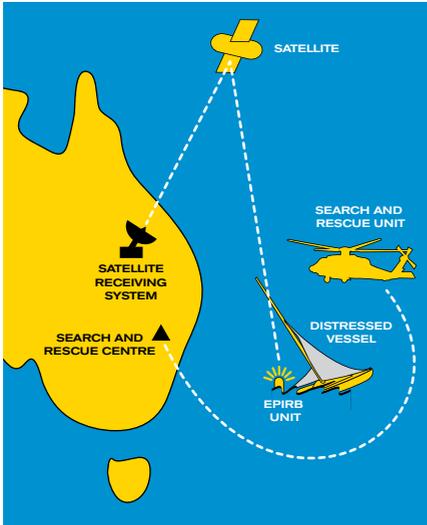
Compass and chart

Any boat being operated offshore is required to have a compass. Even if your boat is fitted with satellite navigation equipment, a good marine compass will indicate the course back to shore if rain, fog or sea haze obliterates the land from view.

An appropriate chart or map that identifies prominent shore marks and offshore reefs and shoals is also required on all vessels offshore. Charts and maps help to determine your position, which can be of particular importance in an emergency.

GPS (Global Positioning System) receivers are becoming increasingly popular as a navigation aid but should never be relied on as the sole source of information regarding your position and course. Always carry a chart and check your position visually, and never navigate solely on the basis of the GPS at speed or at night.

Boating maps are available from NSW Maritime offices and service centres or from www.maritime.nsw.gov.au



EPIRB

An Emergency Position Indicating Radio Beacon (EPIRB) suitable for marine use, must transmit on 406 MHz and conform with all relevant standards. A 406 MHz EPIRB only complies if it conforms with Standard AS/NZS 4280.1 (It is the “I” which indicates compliance).

Any 406 MHz EPIRB **must be properly registered** with the Australian Maritime Safety Authority (AMSA) and have an AMSA registration sticker affixed.

A 406MHz EPIRB is a simple and effective alerting and locating device that is compulsory for all vessels operating more than two nautical miles from the shore. It is also recommended for all vessels operating in remote locations or areas of high risk. The EPIRB should be accessible but stowed to avoid inadvertent activation. Do not stow the EPIRB in the bottom of a locker.

NOTE: A Personal Locating Beacon (PLB) does not qualify as a replacement for a 406 MHz EPIRB. It may be carried in addition to an EPIRB as an extra safety precaution.



Fire extinguisher

Fire extinguishers carried must be appropriate for the type of fuel carried on board the vessel.

Flares

Flares signal that you are in trouble and provide an exact location for searching aircraft or vessels. Ignite them only when rescuers are in view and can spot your flare.

A minimum of two red hand flares (for night or day use) and two orange smoke flares (for day use) are required to be carried on all vessels operating offshore, although some exemptions may apply.

You should be able to locate and ignite the correct flare in total darkness.



Most flares have a use-by date of three years and they must be replaced before the expiry date. Penalties apply.

NOTE: It is an offence to set off flares except in an emergency.

Flare disposal

Out-of-date flares can now be placed into special containers at most NSW Maritime coastal service centres, where they are stored for collection and transport to the Sterihealth facility at Silverwater, Sydney. The expired flares are then destroyed at ultra-high temperature under strict environmental conditions.

For more detailed information call 13 12 56 or visit www.maritime.nsw.gov.au

Fresh drinking water

Two litres of fresh drinking water per person must be carried on all vessels operating offshore.

Marine radios

Different types of marine radios are available so check with the Australian Communication & Media Authority (ACMA) to ensure your radio is suitable for the intended use.

Marine radios are compulsory for all vessels operating more than two nautical miles out to sea, and are recommended for anyone proceeding offshore. They provide a means of advising shore stations of your itinerary, checking boating weather and navigational warnings and making distress calls which can be picked up by other vessels in the area or shore stations.

Marine radios are relatively inexpensive and available for general use.

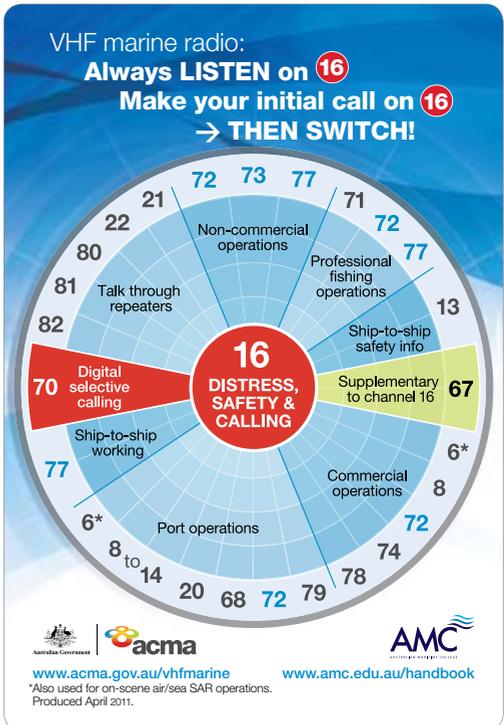
VHF & HF radios are popular with VHF providing a wider coverage. View the diagram at right and visit www.acma.gov.au/vhfmachine for further information about VHF use.

HF services have now transferred from Sydney Ports Corporation to Kordia. This includes the monitoring of HF distress and emergency

frequencies 4125 kHz, 6215 kHz and 8291 kHz and provision of navigation warnings on 8176 kHz at 1057 and 2357 hours and at other times that such warnings are received from AMSA.

The key difference for NSW boaters currently using the HF component of the National Coastal Radio Network is that the call sign for distress and emergency calls in NSW waters is “Charleville Radio” instead of “Coast Radio Sydney”. Due to the superior equipment being used by Kordia and the better positioned HF equipment in Charleville, Queensland (far away from radio interference that normally occurs along the coast and in the cities), it is anticipated users of the service will experience improved HF coverage in NSW waters.

A mobile phone does not replace the requirement to carry a marine radio but is an extra means of communications. Call 000 in any life threatening situation.





Inflatable Lifejacket Maintenance and Servicing

As lifejackets are used in a harsh environment (particularly where saltwater is concerned) they must be regularly maintained & serviced.

Inflatable lifejackets must be serviced in accordance with the manufacturer's instructions.

The following page provides assistance in the routine maintenance of your inflatable lifejacket between servicing.

Step by step guide on how to self check your inflatable lifejacket

Step 1

Check for visible signs of wear and damage. Ensure all fastenings and buckles are in good working order.



Step 2

Following manufacturer's instructions, reveal the inflation system and oral inflation tube. Inflate bladder using oral tube and leave overnight in a room with constant temperature. If bladder loses pressure, immediately take jacket to an accredited service agent for further tests. Do not attempt to repair jacket yourself.

Step 3

Use cap attached to the oral inflation tube to deflate bladder. Invert cap and press down on valve at the top of the oral tube. Do not insert other objects into top of tube as they may damage the valve. Roll or press jacket to deflate fully.

Step 4

Remove CO2 cylinder and inspect. The cylinder should be intact with no rust or corrosion. Weigh cylinder on kitchen or letter scales, ensure weight corresponds to the minimum gross weight engraved on cylinder +/- 2g. If cylinder is rusted, corroded, has been pierced or is not the correct weight it should be replaced immediately. On auto inflation jackets also ensure auto components are armed and in date. Refit cylinder to inflation system, tightening it by hand until firm. Do not over tighten.



Step 5

Repack jacket as per manufacturer's instructions. Ensure manual inflation toggle is accessible and unlikely to be caught when being worn.



Paddle or oars/rowlocks

Oars and/or paddles must be carried on most vessels under 6 metres in length unless a second means of propulsion is fitted.

Owners of larger vessels should consider some means of auxiliary power as an effective safety device.

Safety Label

A Safety Label, which replaces the previous Capacity Plate, must be displayed clearly on all powered vessels (except PWC) regardless of whether the vessel is fitted with an Australian Builders Plate (ABP).

The label must be placed where it can be seen by the skipper and all persons onboard the vessel.

The label indicates the maximum number of people to be carried on a particular vessel, as well as important safety information. The capacity is



determined by the ABP, the manufacturer or, if not specified, by the table on the reverse of the Safety Label.

Safety labels are available from NSW Maritime offices & service centres.

The maximum number of persons for good conditions is shown. A reduction in the maximum number must be made in adverse weather conditions or when on open waters. If not, the master may be guilty of negligent navigation.

In determining whether your vessel complies with the capacity limits, the following applies:

- Children up to one year of age are not counted (although you still require safety equipment for them).
- Each child between the ages of one and 12 years equals one half of an adult.
- Capacity of a person is assessed at 75kg per person with an additional allowance of 15kg per person for personal gear.

Sound Signal

You must have some means of providing a sound signal, such as an airhorn, whistle or bell.

“V” sheet

The V sheet is a fluorescent orange-red coloured sheet (1.8 x 1.2 metres) with a large black V printed in the middle.



V sheets are required to be carried by all vessels operating offshore. They can be spread over the deck of a boat or flown as a flag to indicate that you are in trouble.

Waterproof floating torch

A floating waterproof torch must be carried on all vessels at all times. A torch is a valuable safety device for signalling, for use as a navigation light on small vessels at night and when working on the engine.

Spare bulbs and batteries should be carried.

Other recommended safety equipment

First aid kit

It makes good sense to carry a complete first aid kit aboard, appropriate to the size of the boat.

Tool kit

Although not part of the safety equipment requirements, every vessel should have a tool kit. The basic items in a tool kit include a spark plug spanner and spark plugs (for petrol engines), small spanner, pliers, phillips head and standard screwdrivers, spare fuel line, electrical wiring, insulation tape and a can of water repellent.

Care of equipment

Safety equipment is generally durable and long lasting. Keep small, storable items like flares, “V” sheet, EPIRB, torch and other bits and pieces in an accessible, sealed, waterproof container.

Make sure items like the radio and fire extinguisher are protected from saltwater.

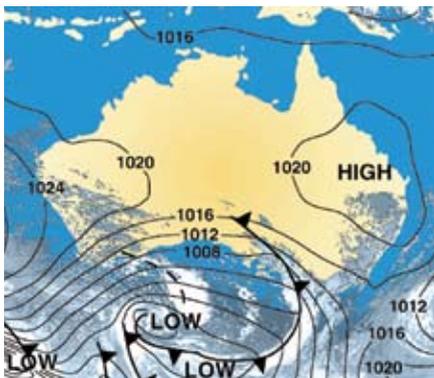
You must look after your lifejackets – don’t use them as cushions or fenders and keep them away from oil and fuel. Ensure they are accessible in a dry, well ventilated area and let everyone on board know where they are.

NOTE: Remove new lifejackets from their plastic.

BEFORE YOU GO BOATING

Before you head out on the water consider these simple tips to assist in trouble free boating:

- Check that your boat is in good condition.
- Check that you have all the required safety equipment on board. Ensure all safety equipment is in good condition and easily accessible in the event of an emergency and everybody aboard knows its location.
- Report your trip. Let someone know where you are going, how many people are on board and when you intend to return.
- Make sure you and your crew know how to handle the boat, especially on the waterway that you're using. If in doubt, get information from locals or NSW Maritime.
- Check the weather before you go out. Register for NSW Maritime's new Maritime Alert system based on official weather data.
- Make sure you have sufficient water and fuel for the duration of the trip.
- Go easy on the drink – waves, wind and weather multiply the effects of alcohol. One third of all boating fatalities involve alcohol.
- If crossing a bar log on to view live web - camera footage for a number of coastal bars in NSW at www.maritime.nsw.gov.au.



Weather

Before heading out in your boat, check the weather forecast. Once on the water, it is important to monitor regular weather reports, especially if changes are predicted. The movement of fronts is sometimes difficult to forecast and the predicted time of arrival may be revised.

Warnings for strong winds (winds averaging 25 to 33 knots), gale force winds (34 to 47 knots) and storm force (48 knots or more) are issued when necessary and updated every six hours.

The Bureau of Meteorology (BOM) broadcasts forecasts and warnings on HF radio bands, via voice and fax.

Warnings are available by phoning **1300 659 218** or checking the BOM website www.bom.gov.au/marine for information.

The Bureau also offers a facsimile service (02) 9296 1567 which provides all forecasts, weather observations, satellite cloud photographs and synoptic weather charts.

A number of organisations also broadcast this information on marine band radios (27 MHz, VHF and HF bands) at regular intervals or on request. They include Sydney Ports and Marine Rescue NSW.

NSW Maritime provides forecasts on phone 13 12 36 or our website, www.maritime.nsw.gov.au, which also includes information from a number of coastal bar cameras.

See www.bom.gov.au/marine/ for details.

**YOU'RE THE SKIPPER
YOU'RE RESPONSIBLE!**

Keep in Touch

Communicate

Tell someone:

- Where you are going
- How many people on board
- When you will return.

Log on

Use your marine radio to log on with a coastal radio base before you leave and to ensure your radio is working. Tell them where you are going, estimated time of return, vessel details and how many people on board.

You should also consider leaving your details with a responsible contact person.

Report in if the trip is extended or altered in any way.

Log off

Remember it is important to log off when you return.

Know Your Boat

Basic boat handling

Setting off

Start your engine, allowing it to warm up before you set off. Untie any mooring ropes from the jetty or wharf, leaving them tied to the boat, coiled and ready for future use. Make sure all ropes are inside the boat and not trailing in the water where they can be caught in the propeller.

Check that the area is clear of traffic before moving away, taking note of any speed limits or 'no wash' signs that may be in the area.

Be careful not to create excessive wash when passing people fishing, passive craft or moored boats to avoid rocking them about.

Keep to the right side of the channel (see the section on Navigation Marks and Signs for more information).

Hatches and exterior doors

To assist in evacuation during emergencies, hatches must be capable of being opened from both the inside and outside of the vessel (if built after 1/1/1991). All hatches must be unlocked while the vessel is underway.

Slowing down and stopping

Boats don't have brakes, so give yourself plenty of time to stop. In a powerboat ease off the throttle and move into neutral, using short bursts in reverse gear to slow down and come to a final halt.

Remember, some craft are more difficult to handle when in reverse. You may need an occasional forward boost to gain better control.

Steering

When steering a boat with a wheel, get to know the feel of the wheel and the rudder position before you set off.

Using a tiller is simple, though different to a wheel, providing you remember that pushing to the right will make the boat head left and vice versa.

Be patient and plan ahead – the boat will take a few seconds to respond.

Tying up

To keep your boat secure you need to tie up with rope to both the bow and stern. Many mooring sites have bollards or rings to tie up to – choose ones a short distance beyond the bow and/or stern of your boat. Run your ropes about 45 degrees from your boat, loop them back onto the boat and tie securely, but not too tightly.

Be aware of the rise and fall of the tide.

Make sure you know how to use your ropes properly. Keep them coiled, free of knots and ready for use.

BEFORE YOU GO BOATING

Mooring

Slow down almost to a stop and carry out all your manoeuvres as slowly as possible. Wind and currents should be considered on approach.

Move your boat very slowly, pointing the bow towards the mooring buoy, then use reverse to stop the boat just before the bow hits the buoy. Put the engine into neutral.

Anchoring

When anchoring, lower the anchor to the bottom and let the vessel go astern until sufficient line is let out – this normally means three times as much line as the depth of water. If the weather deteriorates, increase the ratio to 5:1 or more.

Always anchor by the bow not the stern, and never anchor in a channel or where submarine cables are signposted.

NEVER anchor a small boat or vessel not equipped for it, by the stern as this is likely to result in swamping and flooding.

You should have a length of chain between the anchor and the anchor line to cushion the vessel's motion and help the flukes to dig in. The chain also stops the anchor line chafing on the bottom. The bigger the vessel, the more chain you require.

In choosing your anchoring position, you should take into account local tides, possible wind changes and swing room required to keep your vessel away from any other vessels or hazards nearby. These factors are particularly important at crowded anchorages, or if you plan to stay overnight or leave your vessel unattended for even a brief period.

If the water is fairly shallow, you may have to periodically adjust the amount of line you have

out to allow for changes in depth caused by tides.

Do not anchor in sensitive habitats such as seagrass. Areas of seagrass are usually visible as dark patches on the sea bed. Damage from an individual anchor can potentially set off progressive seagrass loss over a wide area.

Historic shipwrecks are also easily damaged by anchors and anchoring in their vicinity should not be attempted.

Don't anchor on bombooras, shallow rocks, reefs, banks and shoals.

Common anchoring mistakes include letting the anchor go without securing the line to the boat, or getting the line wrapped around a foot.

If you break down, you should attempt to remain in the one location by anchoring, or if conditions make this difficult, setting a sea anchor or drogue.

Loading your boat

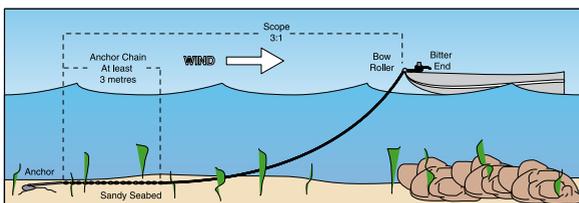
Overloading/stability

Overloading can contribute to the capsize or swamping of a vessel.

Never load your boat with passengers or cargo beyond its safe carrying capacity. Too many people or too much gear can cause the boat to become unstable, resulting in capsize or swamping.

Always balance the boat to maintain proper trim and use the vessel's Safety Label or Australian Builder's Plate to determine the maximum number of persons you can safely carry in calm weather.

Always stow heavy items as low as possible in the boat. Make sure they are secure. Ensure loads are distributed evenly to maintain appropriate freeboard and trim of your vessel.



Going aboard small vessels

When moving onto or off small craft remember:

- Step aboard as near amidships as practicable, crouch down and hold onto something.
- Never jump into a vessel or pause with one foot aboard and the other foot ashore.
- If you move about in the vessel, keep to the centreline and crouch down to lower your centre of gravity.



Children under 12 must wear a lifejacket at all times in smaller craft (see table on page 20)

Kids and Boats

Preparing children for boating

If you take your children boating, teach them emergency procedures. It will improve their confidence and your peace of mind.

From 1 November 2010 children under the age of 12 years must wear lifejackets in the following circumstances:

- At all times when in a vessel less than 4.8m in length
- When in an open area of a vessel 4.8m to 8m in length that is underway.

Make sure that the lifejackets are well fitting.

Other children should be encouraged to wear an appropriate lifejacket at all times, especially when in open areas of a boat where it is possible to fall directly overboard.

Teach them to swim and practise emergency positions like HELP and Huddle.

Teach them to stay with a capsized boat or an easily seen floating object, making them easier to be seen by rescuers.

Show them around the boat and where all emergency items are located. If they are old enough to understand, show them how to use equipment such as radios, EPIRBs and flares, stressing the importance of not using them unless real trouble exists and the penalties that exist for misuse.

Teach them about stability and loading the boat, how to get in and out of dinghies and small boats.

Stop children from having any part of their body out of the boat when it is underway. It's illegal and penalties apply.

Teach them the rules about keeping a good lookout, avoiding collisions and reducing wash.

Children under the age of 18 must not be aboard any vessel travelling at 60 knots or more, unless approved under an aquatic licence.

A website has been developed to teach kids and their families about safe boating; for details visit www.boatforlife.com.au.

REMEMBER: Slip, Slop, Slap.

Use sun-protective clothing, sunscreen, hats and a lifejacket.

Know the rules

All masters must be aware of the International Regulations for Preventing Collisions at Sea. A summary of these rules is given in this section.

Safe speed

All vessels must travel at a safe speed at all times.

A safe speed cannot be expressed as a maximum or minimum number of knots because it varies with circumstances and conditions. The master (skipper) must continually assess the safety of the vessel's speed.

A safe speed is one at which the vessel can be stopped in time to avoid any danger which arises suddenly. In judging a safe speed the master must consider a number of issues including:

Visibility – drive slowly in rain, fog, mist, smoke or glare.

Special caution is required at night because many potential hazards may not be lit or may not be easily seen. Background shore lighting may confuse you.

Other vessels – slow down on busy waterways and when near moored or anchored vessels, working vessels showing special signals and large vessels which have difficulties in manoeuvring.

Navigation hazards – slow down in shallow areas or in unfamiliar waterways.

Water depth can vary and change frequently. Not all hazards may be marked or lit and signs, buoys, marks or lights may have shifted or been vandalised.

Wind, waves and currents – may adversely affect the manoeuvrability of a vessel.

Manoeuvrability of the vessel – stopping and turning ability depends on the speed travelled, wind and current and the boat's design (such as hull shape, engine and propeller type and number).

If your vessel does not have a speedometer, you must be able to determine if you are exceeding

a local speed limit. For example, if your boat is planing in a restricted speed zone it is likely that you are exceeding the speed limit, so slow down.

Proper lookout

A good lookout must be kept by sight and hearing.

The master must be fully aware of the boating environment, especially in bad weather, restricted visibility or darkness. Don't forget to look all around – even behind you.

Special care should be taken when operating your boat in areas where high speed vessels operate, such as Sydney Harbour. The situation can become dangerous very quickly due to rapid closing speeds, even if your vessel is travelling slowly.

For example a vessel going at 20 knots will cover more than 100 metres in less than 10 seconds and the speed of your boat may further decrease your time to react to avoid a collision.

Don't confuse the lookout duties of the master with those of the observer when the boat is towing a person on skis, tubes, etc.

The master is responsible at all times for keeping a lookout for dangers.

Bow riding is illegal

Bow riding means extending any part of your body outside the perimeter of a vessel that is underway.

NOTE: The offence relating to bow riding relates to both the operator of a power-driven vessel and the person on board the vessel who extends any part of their body outside the perimeter of the vessel.

\$100 – \$250 on-the-spot fine to the master and/or the offending person

Giving way

The master must continuously assess the risk of collision with other vessels and power vessels must give way to:

- Sailing vessels.
- Vessels approaching head on (by altering course to starboard).
- Vessels approaching from the right (starboard hand side (ie, crossing).
- Vessels displaying the special lights and signals shown in this chapter.
- Large vessels restricted in their manoeuvrability.
- Any vessel being overtaken.
- Vessels engaged in fishing activities and showing appropriate signals.

A vessel drifting is deemed to be underway and has no special right of way. It is required to comply with the International Regulations for Preventing Collisions at Sea.

Do not create a dangerous situation by forcing your right of way. Always keep a safe distance off other vessels so the vessel can be stopped or manoeuvred to avoid any sudden danger.

The faster the speed, the greater the safe distance must be.

When altering course make your intentions clear to others as early as possible.

NOTE: In a collision, all masters involved can be held responsible even if the give-way vessel does not give way, because all masters are required to exercise caution and take avoiding action if the other vessel does not.

Sound signals

Special sound signals exist for vessels to indicate their manoeuvring intentions when they are in sight of one another.

1 short blast

I am altering course to starboard (the right).

2 short blasts

I am altering course to port (the left).

3 short blasts

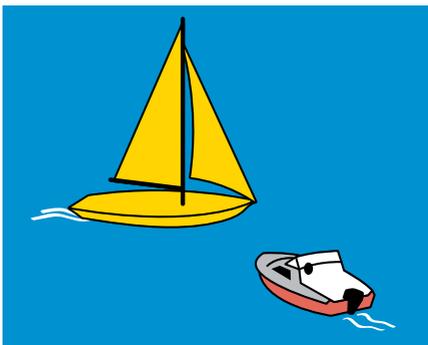
I am operating engines astern (stopping/slowing).

5 short blasts

I am unsure of your intentions and I doubt whether you are taking sufficient action to avoid collision.

Power gives way to sail

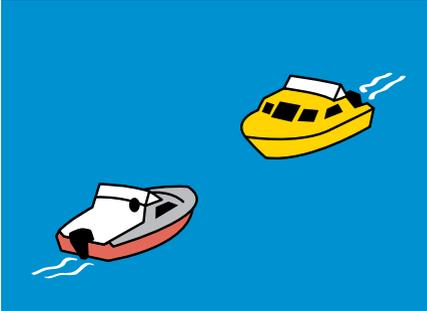
A power driven vessel must give way to a sailing vessel unless the sailing vessel is in the process of overtaking it.



SAFETY ON THE WATER

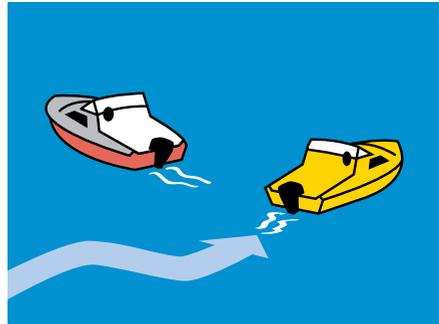
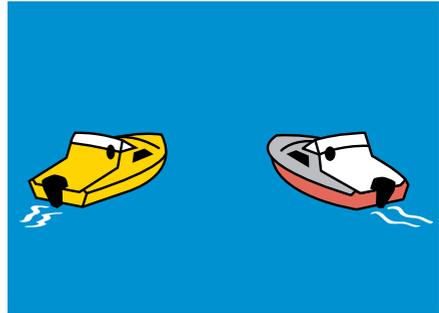
Power driven vessels meeting head on

When two power driven vessels meet head on, each must alter course to starboard (to the right) and pass at a safe distance.



Power driven vessels crossing

In crossing situations, give way to the right.



Action to avoid collision

The give-way vessel must avoid a collision by changing course substantially, by slowing down, or stopping and allowing the vessel which has right of way to pass clear ahead. This must be done as early as possible.

NOTE: The master of the vessel which has right of way must maintain a lookout, maintain course and speed and be prepared to take action to avoid a collision if necessary.



This sailboat is crossing too close ahead of this ship

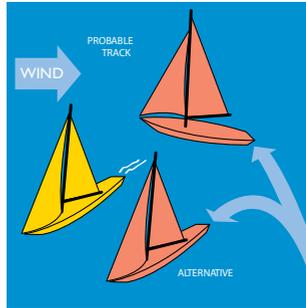
Vessels overtaking

Any vessel (including a sailing boat) which is overtaking another vessel must keep well clear of the vessel being overtaken.

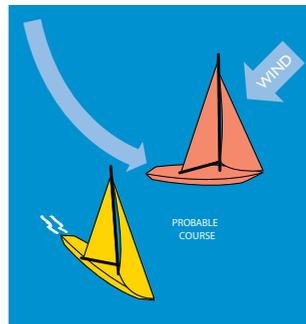
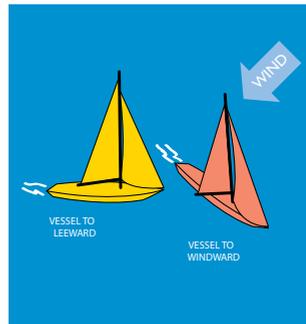
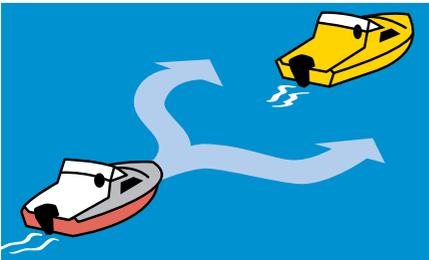
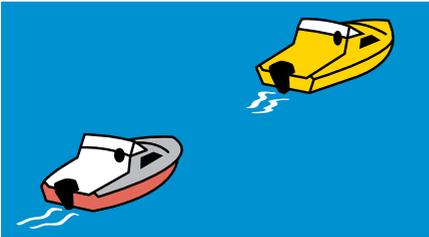
You can overtake another vessel on either side but only when it is safe and you must stay well clear.

In narrow channels you must be particularly careful when overtaking.

In all instances, make sure you do not cut in front of the vessel you have overtaken.

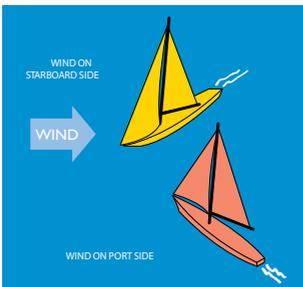


When both craft have wind on the same side, the vessel which is to windward shall keep out of the way of the vessel which is to leeward.



Sailing vessels and sailboards

When two sailing vessels have wind on different sides, the vessel with wind on the port side gives way. In the following scenarios, the red vessel gives way.

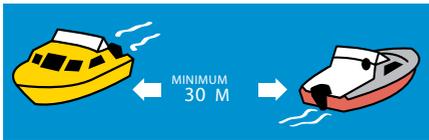


NOTE: If a collision appears inevitable, the skipper of each vessel must take proper action to avert the collision.

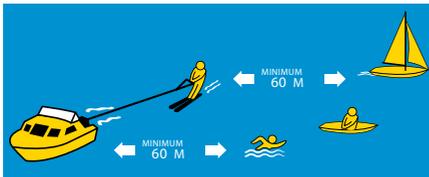
Distance off

When driving a vessel at a speed of 10 knots or more **or** towing a person you must keep the vessel and the person being towed a minimum distance of:

- **30 metres** from power-driven vessels, any moored vessel, land and structures (including jetties, bridges, moorings and navigation markers) or, if that is not possible, a safe distance.



- **60 metres** from persons or non-powered vessels (sailing and passive) that are underway or if that is not possible, a safe distance.
- **100 metres** from a dredge or work barge, if you are travelling faster than 4 knots.
- A **safe distance** from any vessel towing a person.



Safe distance

A **safe distance** between a vessel and a person or thing (including another vessel) is a distance that will ensure that the vessel will not cause danger or injury to the person or damage to the thing, having regard to all relevant safety factors including weather conditions at the time, visibility, speed of the vessel and obstructions to navigation that are present.

It should be noted that where a skipper is issued a penalty for breaching the distance off requirements referred to above and claims that

even though this distance off was breached, the distance off was a 'safe distance', the onus is on the skipper to prove this in court.

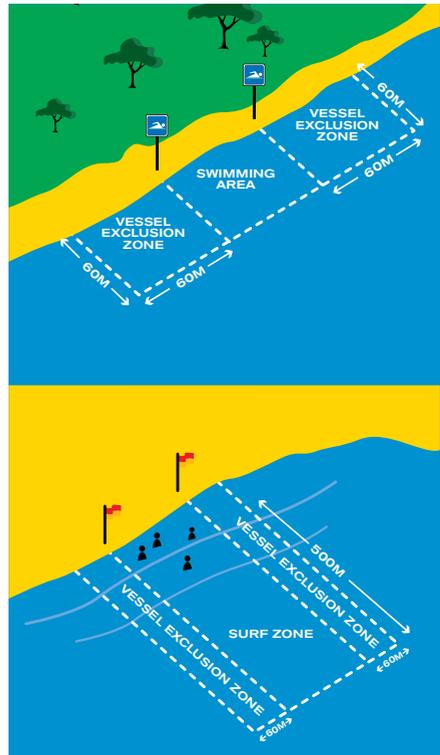
Designated swimming areas

Remember the same rules apply for PVC as other vessels operating near surf zones/swimming areas.

A designated swimming area in a surf zone is defined as the area extending 500 metres out from shore between surf patrol flags or signs.

In all other areas a swimming area is defined as the area extending 60 metres out from shore between signs for swimmers.

A vessel must not be operated in these zones or within 60 metres either side of the flags or signs marking such zones unless it is a vessel operated by Surf Life Saving NSW or Council lifeguards.



Mooring areas

On many waterways in NSW, areas are set aside for the mooring of vessels. These vessels are not required to be lit at night and the masters of other vessels must be aware of the location of such moorings.

Check local maps or charts, or contact your local NSW Maritime Operations Centre for details of mooring areas. When navigating near, in or through a mooring area:

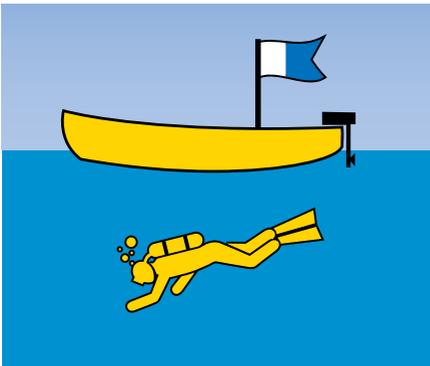
- Drive slowly and keep wash to a minimum,
- Keep a lookout for people in the water, small dinghies, and trailing ropes.
- When travelling at 10 knots or more you must stay at least 30m from any moored vessel.

Diving activities

The diver's flag – white and blue no less than 400mm x 400mm in size – must be shown when people are engaged in diving activities from a vessel. It is to be flown in a vertical position above the superstructure. It is recommended that this flag be shown when diving/snorkelling from shore.

As divers may not always be in close proximity, it is important that as soon as you see a dive flag you slow down, keep well clear and keep a good lookout.

If you are within speaking distance of the dive master, get their instructions as to a safe direction



to travel to avoid any possible encounters. If there is no dive master about then it's your responsibility to keep a good lookout at all times for any divers above and below the surface and then determine a safe distance.

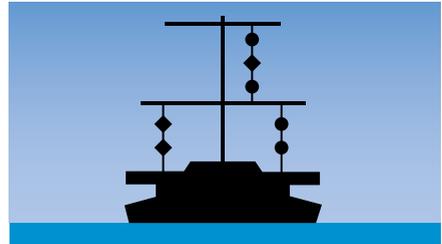
If you see a snorkeller in the water, remember to remain a safe distance.

If you are travelling at a speed of 10 knots or more, keep a minimum of 60 metres from persons in the water.

When you see a diver's flag slow down, keep well clear and keep a lookout.

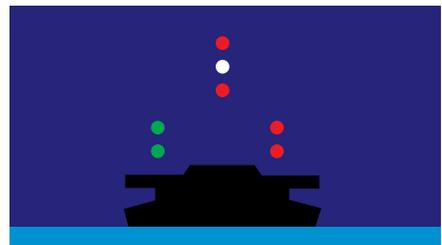
Dredges

When driving your vessel you must not create wash that may damage or unreasonably impact on a dredge.



**Safe side
to pass
(Diamonds)**

**Obstruction
this side
(Balls)**



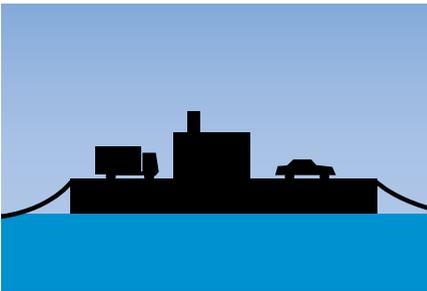
**Safe side
to pass
(Green – Go)**

**Obstruction
this side
(Red – Danger)**

Vehicular ferries

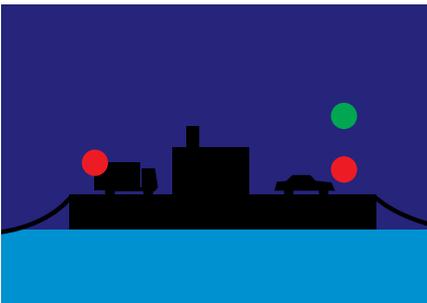
In some areas vehicular ferries drag themselves across channels using wires or chains. Because these wires/chains are often below the water you may not see the danger.

You must slow down to 4 knots or less when within 100 metres of the wires or chains of a vehicular ferry when it is underway and disengage power when crossing the wires or chains.



Always pass astern of the ferry. Preferably wait until it has reached the shore to avoid becoming entangled in the wires.

A vehicular ferry underway will display an all-round flashing light. You should give way, as it is significantly restricted in its ability to manoeuvre.

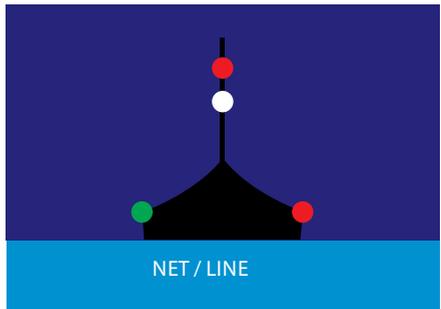
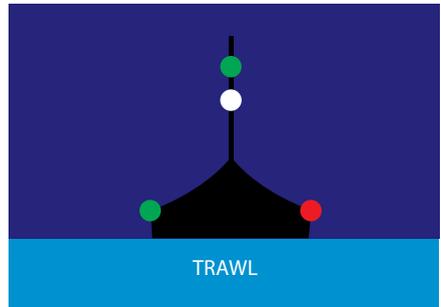


Commercial fishing vessels

Licensed fishing vessels (LFB) display special shapes and lights when their manoeuvrability is restricted by their fishing apparatus.

You should keep clear of these vessels when you see such shapes or lights or notice they are working with nets and lines.

(Contact your local Fisheries office for more details about the rights of commercial fishing vessels).





Navigation Marks and Signs

A system of buoys, poles and lights is used to assist safe navigation. Each type of mark has a unique combination of colour, shape, topmark and light. You must be able to identify these marks and pass them safely on the correct side.

An interactive guide to safe navigation, including marks and signs as well as vessel lights, is available online at www.maritime.nsw.gov.au

Lateral marks

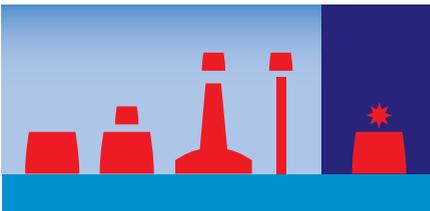
Port and starboard marks are referred to as lateral marks.

Port hand markers

Port markers are red and have a can shaped topmark or buoy.

If lit, a port hand mark shows a flashing red light.

Port markers may be any of the shapes shown below.

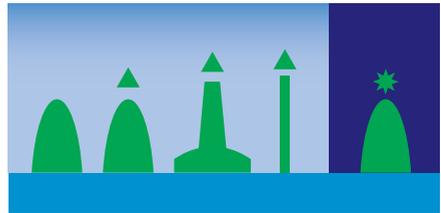


Starboard hand markers

Starboard markers are green and have a cone shaped buoy or topmark.

If lit, a starboard hand mark shows a flashing green light.

Starboard markers may be any of the shapes shown below.



When both port and starboard marks are placed near each other, you travel between the two.



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SAFETY ON THE WATER

Single lateral marks

Often lateral marks are not placed in pairs, so you will need to decide on the safe side to pass.

The safe side to pass a lateral navigation marker is determined by your direction of travel to or from the sea.

NOTE: Heading upstream means in a direction away from the sea. Heading downstream means in a direction towards the sea.



Keep **green** (starboard hand marks) on your **right hand side** (to starboard) when going upstream.



Keep **red** (port hand marks) on your **left hand side** (to port) when going upstream.



Keep **green** (starboard hand marks) on your **left hand side** (to port) when going downstream.



Keep **red** (port hand marks) on your **right hand side** (to starboard) when going downstream.

- ✓ **Green to green** when going upstream
- ✓ **Green to red** when seas are ahead

Channels and rivers

Extreme caution should be exercised when driving a boat because not all shallow areas and navigation hazards may be marked. This is important on rivers and estuaries where shallow areas may shift.

Be careful at bends. Keep a good lookout for boats coming the opposite way.

Do not cut corners.

In channels or narrow stretches of water the following rules apply:

- Keep to the starboard side (right-hand side) of the channel.
- Do not get in the way of larger vessels operating in the channel and watch for unexpected alterations of course as they try to follow the deepest water route.
- Do not anchor or fish in channels where you may obstruct other vessels.

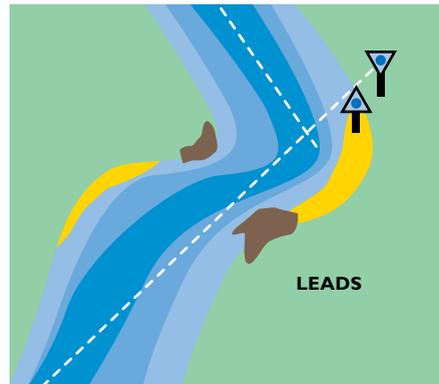
NOTE: All regulations for avoiding collision still apply in channels.

Leads

Leads are often used to guide vessels into a port or through sections of a waterway. By moving your vessel to a position so that both leads are lined up, the course should be a safe one.

At night, major leads are lit. Move your vessel to ensure that the lights are vertically above each other. All leads are shown on maps and charts, so it is essential to consult your chart for relevant leads and other navigation aids before entering unfamiliar waters.

The leads at major ports are usually highly visible blue triangular or vertical lights mounted on bright orange or red triangular boards.



SAFETY ON THE WATER

Cardinal marks

Cardinal marks are used to indicate that deeper water lies in a compass direction away from a danger such as a reef, shallow areas, etc. They are painted in combinations of yellow and black as shown.

Think of a clock face when remembering the lights on cardinal marks.

Three flashes = east,

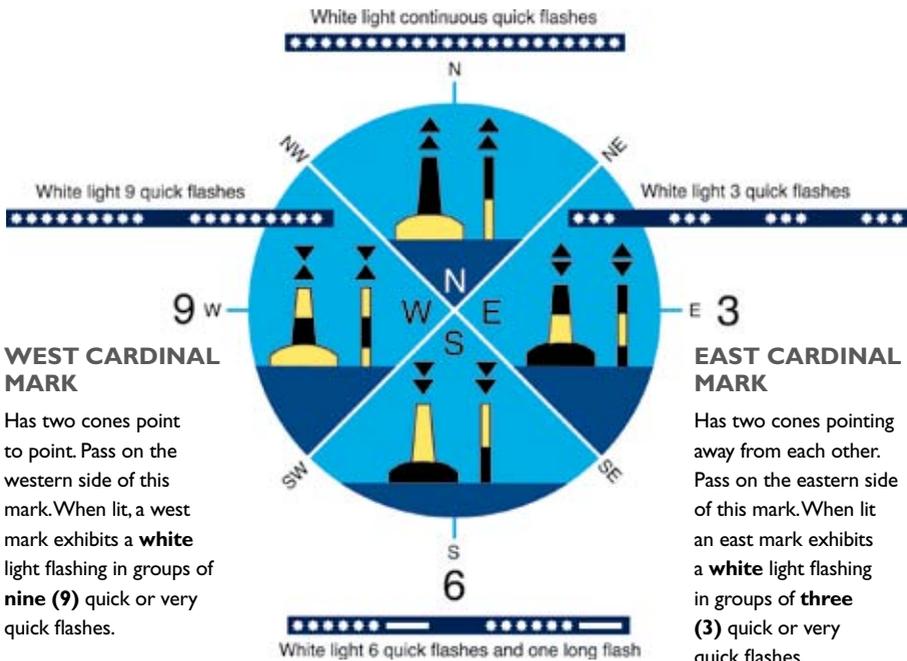
six flashes = south,

nine flashes = west.

Continuous flashes = north.

NORTH CARDINAL MARK

Has two cones pointing up. Pass on the northern side of this mark. When lit, a north marker exhibits a **continuous** (very) quick flashing **white** light.



SOUTH CARDINAL MARK

Has two cones both pointing down. Pass on the southern side of this mark. When lit a south mark exhibits a **white** light flashing in groups of **six (6)** quick or very quick flashes followed by a long flash.

Speed signs

In some areas, speed restriction signs are used for safety reasons. Two types of speed signs are used in NSW.



- A) **4 knots**
(about 7 km/hr or a fast walking speed)



- B) **8 knots**
(about 15 km/hr or a fast jog)



- C) **8 knots**
(example of older sign being replaced)

Wash

The operator of a vessel must not cause wash that damages or impacts unreasonably on:

- Any dredge or floating plant.
- Any construction or other works in progress.
- Any bank, shore or waterside structure.
- Any other vessel, including a vessel that is moored.

NOTE: Penalties apply

No Wash signs

“Wash” is the wave effect created by a vessel moving through the water. No Wash signs are placed in some areas where the wash from a vessel is likely to cause damage to the foreshore or vessels, or injury or annoyance to people.



Restrictions for boating traffic passing under the Spit Bridge on Sydney Harbour



Travel at a speed which creates minimal wash when you see this sign and when near moored or anchored vessels. Look behind you to check that you are not creating wash and note the effect of your wash on other boats

and the shore. Adjust your speed if necessary.

Regardless of signs, you should not navigate your vessel in such a way as to produce excessive wash that endangers other vessels or impacts unreasonably, as this is an offence.

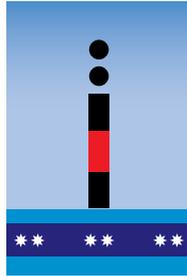
ON THE SPOT FINE \$500

Note: Travelling at the speed shown on a speed restriction sign does not guarantee you are not creating wash.

Other buoys and signs

Isolated danger

Indicates specific dangers with generally safe waters all around (eg a wreck). You can pass them on any side but do not pass too close. If lit, it shows a white light flashing in groups of two.



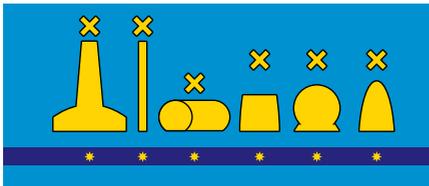
Special marks

Indicates special features or areas such as:

- tide poles
- spoil grounds or
- underwater pipes.

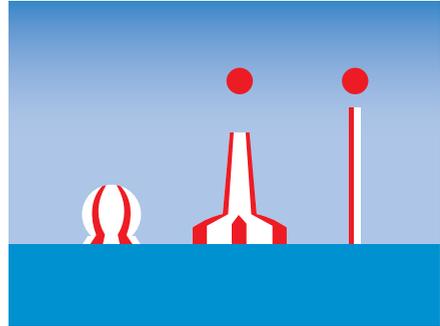
They can be utilised as lateral marks by using can or conical shaped buoys. If so they must be passed as lateral marks: can (eg port hand going upstream) conical (starboard hand).

These marks, if lit, show a yellow light at night which may flash in any rhythm.



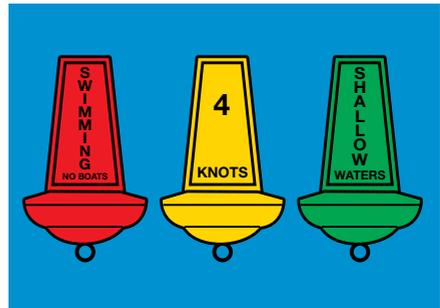
Safe water marks

These are not common in NSW. However, they may be used to mark the division of large shipping channels. They may show a white flashing light at night and should be passed to port.



Aquamark minibuoys

Used in some areas as alternatives to conventional buoyage. They often have advisory messages on them and penalties may apply for breaching the requirement displayed.



Submarine cables

Anchoring is prohibited within 200 metres of submarine cables. If an anchor becomes snagged near one of these signs, it should not be retrieved – cut the anchor line.

Overhead power lines

As clearance height can vary according to water levels, it is most important that masters know the heights of their masts and understand the height level given on any sign.

Most of the existing signs on the water give the clearance of the power lines as the clearance above Mean High Water Springs or the average of very high tides. It is important to know that this clearance height may be reduced during king tides or floods.

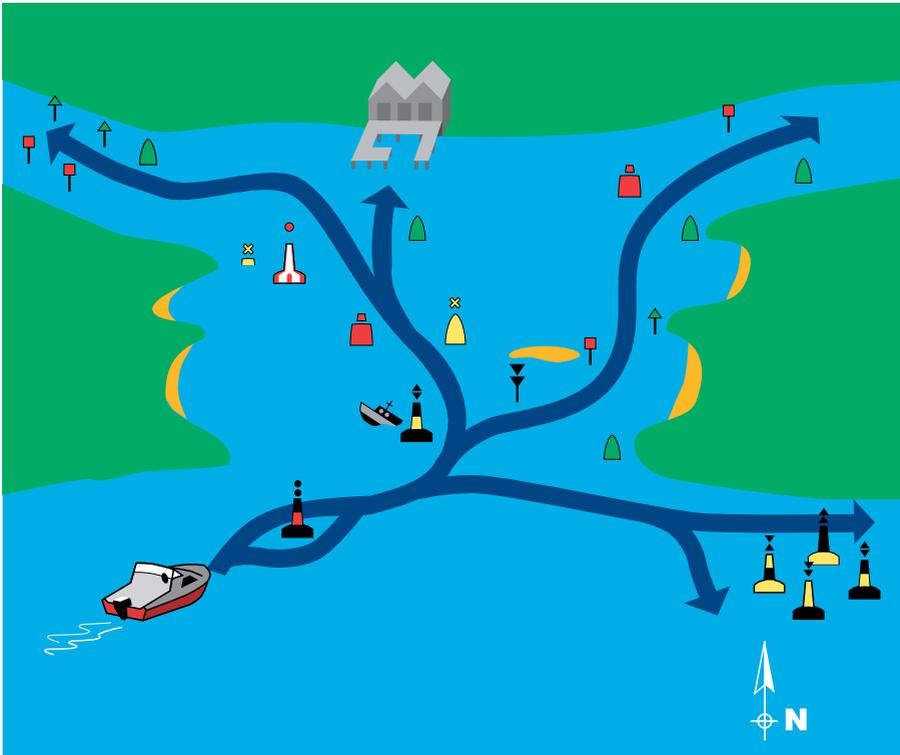
However a new crossings signage system is progressively being introduced on NSW waterways. The new signage advises the maximum vessel height which can be navigated under an overhead crossing. It is important to note that clearances may be reduced during floods.

To assist boaters to interpret the new signs NSW Maritime has prepared a sticker which you can use to help you remember the height of your vessel above the water line. You are encouraged to place the sticker close to the steering position of your vessel.

Extra caution is required during the changeover period from the old to the new system and when launching/retrieving vessels with a mast on shore. Always keep a lookout for overhead power lines.

Bridges

Bridge heights on maps are measured at the Mean High Water mark, so you should allow for higher than average tides at certain times of the year. Also consider your vessel may require more room when unloaded.



KEEP A PROPER LOOKOUT



KEEP A PROPER LOOKOUT

In a boat, a proper lookout must be kept at all times. You have to watch and listen carefully, especially in bad weather, restricted visibility or darkness. Remember:

- Don't forget to look all around – even behind you
- Special care should be taken in areas where higher speed vessels operate
- Even when you have an observer while towing a person on skis or tubes, the skipper is always responsible for keeping a proper lookout
- Keep safe, keep to the right.

For more information see our website or call the Info line.

**YOU'RE THE SKIPPER
YOU'RE RESPONSIBLE!**

Night Safety

Be bright – be safe at night

When night falls it is a completely different world on the water and so vessels that operate from sunset to sunrise, whether at anchor or underway, must carry and exhibit the correct lights.

BOATING AT NIGHT: Go slow, be seen, keep a lookout and be bright.

Go slow

When fog, glare, smoke or darkness restricts your visibility, you must slow down to a safe speed. A safe speed is one at which you can stop and avoid a collision, considering the circumstances and conditions at the time.

You wouldn't drive fast on a dark road without headlights – the same applies on dark waterways – be bright.

Remember – the faster you go, the faster you approach hazards and hitting a hazard at speed can have a greater impact on you, your passengers and your boat.

Be seen

You may be able to see others but can they see you? At night, every type of craft on the water needs lights in order to be seen. Whether you are paddling, rowing, sailing or motoring, everyone needs to be able to recognise where you are and what you are doing.

Make sure you have the right lights for your craft and that they work properly. Use them as soon as the sun goes down or when visibility is poor. Your lights should be mounted in a position that gives you optimum night vision and allow others to see you from every direction.



Photo courtesy of City of Sydney



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SAFETY ON THE WATER

You must carry a working waterproof floating torch. It may help others see you if you shine your torch on your sails or superstructure.

Make sure you don't adversely affect your night vision, or the vision of other boat skippers.

Navigation Lights Checklist

Check your lights before heading out.

- Check switches are on.
- Check navigation lights are on and working.
- Physically check each light is on.
- Turn off cabin lights as it may reduce your ability to see.
- If the vessel has a flybridge and weather permits, it is generally preferable to drive from there as you will have a better all round view.
- If you anchor at night, show an all-round white light where it can best be seen.

Keep a lookout

Navigating at night requires special care – it can be like looking into a black hole. Look and listen at all times, as a number of hazards such as logs, moored boats or sandbanks are unlit.

Navigation lights may not be as bright as other lights and background lights may hide something that is closer. If it is a large ship, the lights might be high and you may not realise that you are looking at the sides of a black hull.

If you have the slightest doubt, stop, ensure you are lit and have a good look around you.

LOOKOUT AT NIGHT

Is that a vessel(s)?

How big is it?

What direction is it travelling in?

How fast is it moving?

How far away is it?

Does it have priority?

What is our relative position?

Know your waterway

Navigation markers can aid you in safe passage of a waterway. These aids to navigation can indicate where prominent hazards are, but should be coupled with reference to a map or chart and use of local knowledge of the area, particularly in the dark.

Different lights

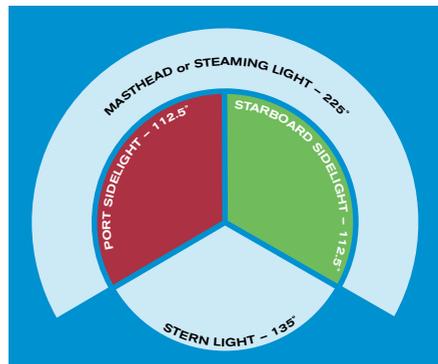
All round white light: a white light showing an unbroken light over an arc of the horizon of 360 degrees.

Masthead light: a white light placed over the fore and aft centreline of a vessel, showing an unbroken light over an arc of the horizon of 225 degrees and fixed to show from anywhere ahead, to just behind the beams of the vessel.

Sidelights: a green light on the starboard (right) side, and a red light on the port (left) side of a vessel. Each shows an unbroken light over an arc of the horizon of 112.5 degrees, and is fixed to show from ahead to just behind the beams of the vessel on its respective side.

On a vessel of less than 20 metres in length, the sidelights may be combined in one light unit, carried on the fore and aft centreline of the vessel.

Sternlight: a white light placed near the stern, showing an unbroken light over an arc of the horizon of 135 degrees, fixed to show from behind the vessel.



ALWAYS KEEP TO THE RIGHT



ALWAYS KEEP TO THE RIGHT

Boating is all about having fun and enjoying our waterways. But it also means keeping a proper lookout at all times. Remember:

- Always keep to the right, entering a narrow passage or on a sharp bend
- Watch for swimmers, floating debris and whitewater that indicates submerged reefs and rocks.
- Keep watch for other boats, especially kayaks and dinghies

For more information see our [website](#) or call the Info line.

**YOU'RE THE SKIPPER
YOU'RE RESPONSIBLE!**

Range of visibility

Vessels under 12 metres

- Masthead light – 2 miles
- Sidelight – 1 mile
- Stern light – 2 miles
- All round lights – 2 miles

Vessels 12 metres to 20 metres

- Masthead light – 3 miles
- Sidelight and stern light – 2 miles
- All round lights – 2 miles



Placement of lights

Navigation lights should be positioned so they are not obscured by the vessel's superstructure or interfered with by deck lights.

Masthead

The masthead and/or all round white light must be fitted (if practical) on the centreline (bow to stern) of the vessel.



Power vessels underway

Vessels under 7 metres and less than 7 knots

Powered vessels of less than 7 metres in length, with a maximum speed of 7 knots or less, shall exhibit a white light visible all round and if possible, separate and/or combined sidelights.

Vessels under 12 metres

- Separate or combined sidelights; a masthead light and a stern light; or
- Separate or combined sidelights and an all round white light.

The masthead or white all round light shall be carried at least one metre above the sidelights.



Vessels 12 metres to 20 metres

- A masthead light, separate sidelights and stern light; or
- A masthead light, combined sidelights and stern light.

The masthead light shall be carried at least 2.5 metres above the gunwale. Combined sidelights shall be carried at least one metre below the masthead light.



Sailing vessels underway

Sailing vessels while underway (being motor driven) under power shall exhibit navigation lights applicable to power driven vessels.

Sailing vessels under 7 metres

Sailing vessels of less than 7 metres in length, or vessels being rowed, should if practicable exhibit the lights required for sailing vessels over 7 metres.

If not they should have ready use of an electric torch or lighted lantern showing a white light which shall be exhibited in sufficient time to prevent collision.

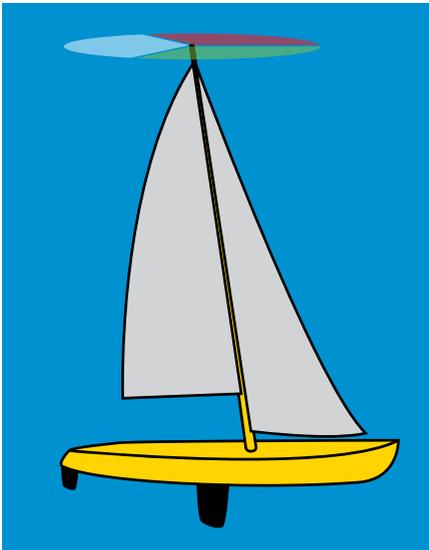
Sailing vessels 7 metres to 20 metres

- A combined lantern, that is at or near the top of the mast and incorporates sidelights and stern light; or
- Separate sidelights and stern light.



Sailing vessels over 20 metres

Must exhibit sidelights and stern light and may carry the optional red and green all round lights. However, these vessels may not carry a combined lantern.



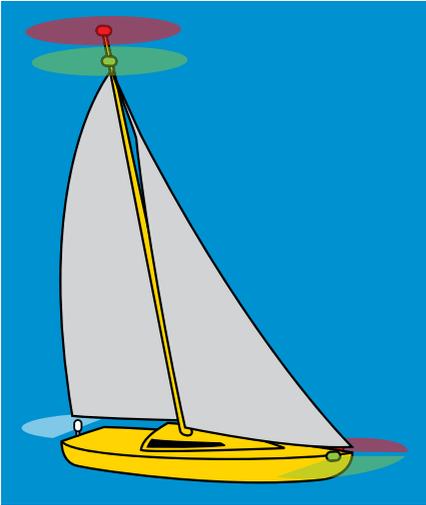
NOTE: The use of tricoloured lights alone in areas affected by backlighting is not recommended. In these cases it is recommended to use deck level navigation lights.



SAFETY ON THE WATER

Optional lights for sailing vessels

A sailing vessel of any length which is fitted with sidelights and a stern light (but not a combined lantern) may, in addition, carry two all round lights in a vertical line at or near the top of the mast. The upper light shall be red and the lower green.



Power and sailing vessels at anchor

Vessels less than 50 metres in length at anchor shall exhibit an all round white light, placed where it may be well seen.

Anchor lights must always be shown from sunset to sunrise. If you are at anchor in a busy area, then show additional lights to ensure you are seen and keep a good watch.



Rowing/Paddle vessels

Such craft must have a torch or lantern ready to display in time to prevent a collision. Craft that are more than 4 metres long should exhibit two all-round lights, either continuous or a combination of continuous and flashing white lights, positioned at either end, in accordance with the Code of Conduct for Rowing.

NOTE: There are many other combinations of lights used on vessels. The lights shown relate to the activity the vessel is engaged in, ie. fishing, dredging, not under command.

A simple rule of thumb for a small power boat is to stay clear of any vessels exhibiting additional lights.



Special Areas

Open waters

Handling a vessel at sea

The way a boat handles at sea will depend on:

- Its hull design and strength.
- The amount of power used to propel it.
- Wave direction.
- The way the boat is steered.
- Weight distributed in the vessel.

Bomboras

When boating along the coastline, particularly when close to a shoreline, be aware of bomboras. Bomboras are shallow areas such as those created by rocks or reefs that cause waves to break.

It is advisable to check maps and charts, talk to locals and be aware of the existence of bomboras. The danger posed by these formations can be higher in good weather, as a bombora may not be identifiable because it may not always have breaking waves.

Boaters need to be cautious anywhere bomboras may exist.

Head seas

Generally, the best way to tackle bigger waves is to take them bow on or about 30 degrees off each bow.

Too much power will result in the boat leaping over the crests and crashing down into troughs. This slamming action is not good for either the boat or the people on board.

Too little power may mean that the waves break onto or over the vessel.

Control the speed and direction steered to achieve the most comfortable and safest ride.

Beam seas

The danger from travelling beam on to waves is that rolling is increased. The amount of rolling can be reduced by varying the angle to the seas.



The bow is the strongest part for taking on waves. Make sure everyone is wearing lifejackets

Watch out for waves that are larger than others and consider changing course or speed to ride over or with it.

Following seas

Travelling with a following sea has the greatest potential for disaster, with broaching sideways and swamping/capsize a real possibility. Steering power is reduced by following seas and judicious use of the throttle controls is critical.

As in crossing a bar, you should attempt to maintain a position on the back of waves, using throttle to keep ahead of waves breaking behind the boat.

Remember when conditions worsen

- Ensure the boat is as watertight as possible.
- Ensure all persons are wearing lifejackets.
- Use throttle control and steering to reduce the impact of waves.
- The bow of a boat is the strongest part for taking on waves.
- If caught in rough weather, report your situation to rescue authorities.
- Secure all moveable items in the boat so that they do not become missiles.
- Ensure all people are holding on firmly.
- Have an EPIRB ready for use in case of capsiz.
- Stay with the capsized boat unless you are very close to shore.

SAFETY ON THE WATER

Handling a vessel in rough weather/hazards

Like other hazards on the water, rough weather can generally be avoided by obtaining a weather forecast prior to setting out.

A sudden unpredicted squall, however, can catch even the most careful boater, so you should always prepare and plan for the worst and keep a good lookout for telltale clouds and white cap waves.

If you are close enough, run for the shore, a safe harbour or the lee of an island, where the wind cannot generate large waves.

Sudden squalls usually only last for a short period and sometimes precede a change in wind direction, usually blowing at much stronger speeds than the wind that will follow.

If you doubt your chances of safely running back to harbour you may prefer to ride out the initial onslaught by keeping your bow into the wind and waves.

The main thing is to keep a speed sufficient to allow you to steer the vessel, but no faster. Without power to maintain steerage, a vessel will drift side on (beam on) to the sea and be vulnerable to capsize.

A sea anchor or a strong bucket tied to the bows will help to keep you pointing into the waves should your engine fail.

Always wear your lifejacket at times of heightened risk.

Seaplanes

When on the water, seaplanes are just like any other vessel. They are subject to all the restrictions and privileges of other boats and conduct their operations accordingly.

Don't be alarmed if a small seaplane alights or takes off in the waterways near you. Seaplane pilots are specially trained and qualified to operate

upon the water. Like other boat operators, they hold marine boating licences to operate a vessel at speeds in excess of 10 knots.

Avoid making sudden changes of direction which might confuse the pilot or obstruct the seaplane's path.

Bar crossings

Shallow sand bars which can form at the point where rivers, creeks, lakes or harbours meet the sea are locations for experienced vessel drivers only. Any channel through such bars can change frequently. Even in apparently calm conditions vessels can be swamped, damaged or wrecked on bars and lives have been lost.

Avoid crossing a bar on a run-out tide when dangerous waves may occur.

Knowledge and experience

Do not attempt to cross any bar without experience and local knowledge. You should:

- Spend considerable time watching the bar conditions in all combinations of weather and tide.
- Cross the bar with other experienced skippers before trying it yourself.
- Obtain and read a copy of the bar crossing brochure from NSW Maritime.

Preparation & planning

Prior to crossing any bar it is recommended that the following checks should be made.

- Know the times of the tide and obtain an up-to-date weather forecast (especially expected wind conditions).
- Observe the bar conditions – be prepared to cancel or delay the crossing.
- If unfamiliar with the bar, obtain local advice, eg from the local Marine Rescue NSW unit.



Check the conditions before you cross ... this skipper made it, just.

- Check the vessel – especially steering and throttle controls, watertight hatches and drains. The vessel must be seaworthy, suitable for the conditions and able to take some impact from waves.
- Ensure that all loose items can be stowed away in lockers or tied down to prevent movement.
- Check that all watertight hatches can be closed and sealed properly, drain holes are free and bilge pumps work.

On the water prior to crossing

Secure all loose gear and equipment. Brief your passengers / crew about the dangers – put on a lifejacket type I.

Check all watertight hatches are closed and secured but not locked.

Assess the bar conditions – have they changed since your last inspection?

When crossing coastal bars, you should not lose your nerve in the white water. Once committed, keep going.

Trying to turn around in the middle of a bar entrance can be disastrous. Try to take waves as close to head on as possible.

Going out

The outgoing vessel must meet the incoming wave energy. Do not hit waves at high speed – an airborne vessel is out of control and can cause damage and injury. Do not allow waves to break onto your vessel.

As a guide:

- Idle towards the breaking waves watching for any lulls.
- If a flat spot occurs speed up and run through it.
- If the waves keep rolling in, motor to the break zone.
- Gently accelerate over the first part of broken water.
- Apply more power and run to the next wave, heading for the lowest part (the saddle) if possible because this is the last part to break.
- Back off the power just before meeting the next swell.
- Pass slowly through the wave and accelerate again to the next wave.
- Repeat the process until through the break zone.

SAFETY ON THE WATER

Coming in

Be aware the conditions may have changed.

If dangerous, consider alternatives:

- Wait for conditions to abate.
- Wait for change of tide.
- Seek alternate safe harbour.

The vessel should travel at the same speed as the waves. The aim is to travel in on the back of a swell, staying ahead of waves breaking behind the vessel.

You should:

- Approach the break zone and try to pick the spot with the least activity.
- Keep any leads in transit; breakers may obscure your vision of the entrance.
- Choose a set of waves suitable for your entry.
- Position the vessel on the back of a swell and maintain speed, ensuring that:

- You do not overtake the wave and run down its face.
- You stay ahead of any wave behind you.
- When the wave ahead of you has broken, accelerate through the white water.
- Beware of steep pressure waves bouncing back off the entrance or shore.
- Adjust speed to counter any pressure waves or any outgoing current.

NSW Maritime has a number of initiatives on bar crossings including a brochure *Bars 'n' Boats – A Safety Guide* brochure, a list of coastal bars and a bar crossing safety checklist sticker.

NSW Maritime is also conducting a web camera trial to assist in trip preparation.

Check the NSW Maritime website for up-to-date information at 15 locations along the NSW coast and in the alpine area.

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Your boating should be fun and relaxing. Your actions as the skipper will ensure that you have done what you can to ensure the safety of your passengers and yourself whilst on the waterways. Adding the 50-Point Safety Check to your routine each year, will help you know more about what maintenance may be needed before you hit the water.

www.50pointcheck.com.au

Conditions apply. The 50-Point Safety Check is suitable for trailer boats under 8 metres long. The 50-Point Safety Check is not a pink slip or requirement of vessel registration. All observations, assessments and recommendations relate specifically to the time of inspection. The 50-Point Safety Check is a product of the Boating Industry Association of NSW Ltd and carried out by authorised members of the Marine Industry Mechanical Repairers Association. \$50.00 is received via a discount on the renewal of your Club Marine Insurance Policy. The discount can be redeemed within 12 months of the date of your 50-Point Safety Check inspection. Visit www.50pointcheck.com.au for a full list of conditions that relate to this product.



Inland waterways

Boating on inland waterways such as rivers, creeks and dams demands special care. Many of these areas present issues not encountered in coastal waters, including submerged trees and other snags.

Inland waterways are often murky and constantly changing; if you don't have a depth finder play it safe and reduce speed.

Familiarise yourself with the area using maps and wherever you can, talk to local operators. They can often provide valuable knowledge such as how the current runs after rain and water depth following drought.

Keep a good lookout for objects ahead or above you, such as overhead powerlines and low level bridges.

Strong currents in major rivers and creeks can flow at fast rates and affect the manoeuvrability of vessels. Never underestimate the power of even a moderate current, which can exert a strong force that may trap vessels such as canoes against rocks. Extra caution is required following heavy rain or flooding.

Be careful in dams subject to water releases and stay well clear of spillways. These can be extremely dangerous due to turbulence as the water flows through spillway gates. Boats can

easily become caught in the turbulence and trapped.

Also remember that during release periods the foreshore can become soft, trapping vehicles during launch and retrieval.

Rivers and dams may look peaceful, but low water temperature and remote locations could prove risky should trouble occur.

Remember not to overload your vessel.

Wind and waves

The surface of the water in shallow dams and storage areas can become extremely rough in windy conditions. Waves are generally short and steep, and can be as high as those encountered in coastal areas.

- Always get a wind/weather report before boating.
- Keep a constant lookout for signs of:
 - changing weather
 - white caps/disturbance on the water
 - cloud development.

If the conditions deteriorate, put on your lifejacket and head for shore. Remember it is better to be on the shore a long way from home, than a long way from shore in such conditions.



SAFETY ON THE WATER

Communication

If you are going to go boating in remote locations, have a good reporting plan in place. Always tell someone where you will be launching from and going, how many people are with you and when you intend to return.

Phone or radio coverage is not always possible, making assistance difficult if problems occur.

Remember not to overload your vessel. Rivers and dams may look peaceful, but low water temperature and remote locations could prove risky should trouble occur.

Alpine waters

Alpine waters mean Lake Burrinjuck, Lake Eucumbene, Lake Jindabyne, Khancoban Pondage, Swampy Plains River, Mannus Lake, Googong Reservoir and navigable waters within Kosciuszko National Park (including Blowering and Talbingo Reservoirs).

Alpine waters present their own unique boating challenges. As with other inland waters, many hazards are not marked and as water levels fluctuate, more hazards may develop just under the surface.

The most common vessel operated in these areas is the small open runabout which is reasonably inexpensive to buy, easy to tow and used as a fishing platform. The majority of these vessels, however, are designed for calm water conditions only.

Wearing a lifejacket is compulsory for all persons in a vessel less than 4.8 metres in length. For other situations refer to page 20.

Alpine weather

There is no specific boating forecast provided by the Bureau of Meteorology for alpine waters. Any person boating in those areas needs to review the available general weather conditions and forecasts and determine how they may affect the waterway they propose to operate on.

Remember that weather conditions in high altitudes can change dramatically within a matter of minutes and proper trip preparation is essential.

Cold water

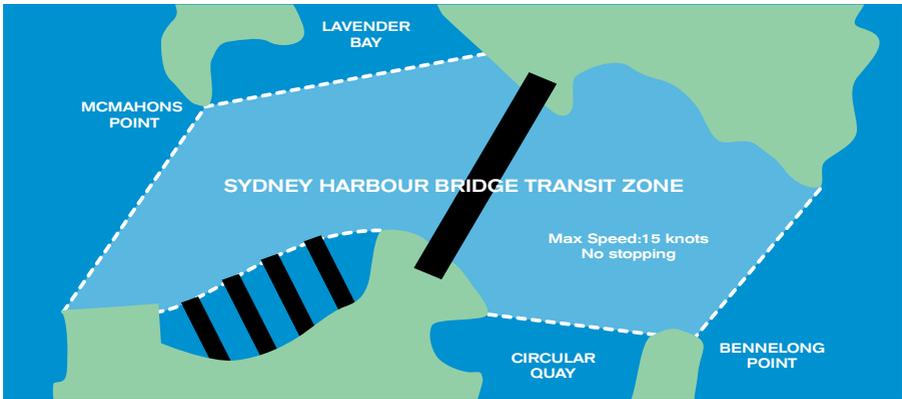
The water temperature of inland waterways varies considerably. The risk of hypothermia always exists and can be exacerbated by a wind chill factor, even in the warmer months of the year.

It is extremely difficult to swim, breathe and stay afloat in very cold water. Wearing of lifejackets is highly recommended at all times.



NOTE: Waders may be okay for fishing from the shoreline, but in a boat they can add to the risk of drowning should your boat capsize, be swamped or you fall overboard.

Wearing a lifejacket is compulsory for all people in a vessel less than 4.8 metres in length on alpine waters and all persons wearing waders.



Sydney Harbour

Sydney Harbour is a unique waterway that is used extensively by a diverse range of recreational and commercial boats including large ships, ferries, charter boats, cruisers, yachts, runabouts, sailing skiffs, dinghies, sailboards, rowing shells, kayaks and dragon boats.

The Harbour is an extremely busy waterway that requires you to be aware of your responsibilities and to take care when boating, especially in busy navigational channels, and make allowances for commercial activity.

There is a need to consider paddlers, rowers and sailors as well as accommodating the needs of commercial operators and those wishing to cruise, ski and fish on the Harbour.

The number of vessels on the Harbour is increasing each year, providing a greater challenge in managing the potential for additional conflict and incidents to ensure safety on the waterway.

There is a continuing need for an understanding and commitment to water safety by all people using the Harbour. The different types of boating may not always be compatible and can lead to potential conflicts: for example, people sailing in organised events and commercial vessels operating to timetables.

Sydney Harbour Bridge Transit Zone

NSW Maritime has established the Sydney Harbour Bridge Transit Zone. The transit zone has a 15 knot maximum speed limit in the vicinity of the Harbour Bridge, between a line drawn between Bennelong Point, and Kirribilli Point to Millers Point and Blues Point but does not include Walsh Bay, Sydney Cove or Lavender Bay north of a line between Blues Point and the southern extremity of Milsons Point ferry wharf.

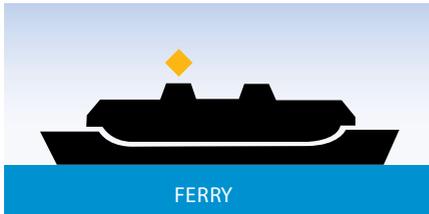
Within this zone, anchoring or drifting are prohibited other than in an emergency. This means that vessels may only travel through this area to reach an area alongside or outside of the transit zone.

SAFETY ON THE WATER

Priority Over sail

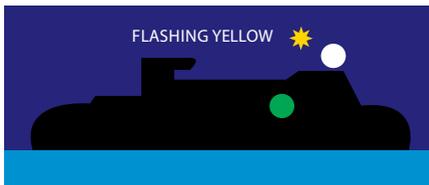
Some commercial ferries on Sydney Harbour display an orange diamond shape which grants priority (right of way) over sailing vessels. This is an exception to the 'power gives way to sail' rule.

Do not attempt to cross the path of an approaching ferry displaying this signal.



High Speed Ferries (on Sydney Harbour)

These craft carry the normal lights for a power driven vessel underway and, in addition, they exhibit an all-round flashing yellow light when they are travelling at speed.



Sydney Harbour Control

VHF Ch16/13 (24 hrs). Nav warnings / Met broadcast VHF Ch13 (5 min. past the hour). Unless otherwise directed, sailing vessels and motor vessels are not to impede the passage of commercial shipping/naval vessels inside the shipping channels. Navigation Collision Regulations 1983 apply.

NOTE: The use of a PWC is prohibited in Sydney Harbour (including all tributaries such as Parramatta River).

Big ships and small boats

Large vessels are restricted to particular channels and cannot deviate from their set course. These vessels are restricted in their ability to alter their course due to their size and need a large area to turn and stop. Their stern swings out wide when negotiating a turn and they lose steerage if they travel too slowly.

The main safety tips for small boats around shipping and ferry channels are:

- Recreational boats, both power and sail, should keep well clear of large vessels and ferries.
- Do not cross ahead of large vessels or ferries unless well clear. Even when hundreds of metres away, your boat may disappear from the ship master's view from the bridge.



The main message to skippers of smaller craft is ... Keep Clear

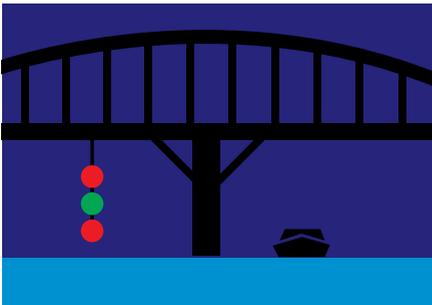
- Do not cross close astern of a large vessel or ferry.
- Always keep to the starboard side of a channel.
- Do not cross a channel if you are going to impede a vessel which has to use the channel.

NSW Maritime provides more information regarding big ships and small boats on its website, including map sections showing the shipping channels. Visit www.maritime.nsw.gov.au.

Channel blocked / closed

These signals mean vessels should NOT navigate in that part of the channel.

- Bridge span blocked
- Channel is blocked
- Port closed



Active radar reflectors

Active radar reflectors emit a signal to nearby radar receivers. The signal is amplified and returned to the transmitting vessel. This makes vessels more visible on radar receivers from greater distances and may reduce the chance of being involved in an incident. It may also assist rescue operations in the event of an incident.

Active radar reflectors need to be mounted high enough on a vessel to be effective (eg, up the mast) and they require a power source. Consequently they may not be suitable for some smaller vessels.

While ARR are not mandatory on NSW navigable waters, they may be a good inclusion to improve your visibility to other vessel operators.

Recreational boat users beware

- It is important recreational boaters maintain a proper lookout at all times and do not impede any commercial vessel in its navigation.
- Recreational boaters must make clear their intentions to an approaching vessel well in advance. For the master of a large ship who is unclear of your intentions, you should indicate that you are getting out of the way of a large vessel at least one kilometre in advance of that vessel.
- It is important that you do not anchor in the navigation channel.
- Ensure that at all times you can be seen clearly. Dull aluminium tinnies can be difficult to see, especially in overcast and poor conditions. Wear bright clothing and be seen. After sunset and in restricted visibility ensure you have the correct navigation lights fitted and they are in proper working order. Your lights must be bright and must be visible for a distance of kilometres. Lights not only tell the other vessel what sort of vessel you have, but also what you are doing and where you are going. Make sure that if someone 'interprets' your lights, they are getting the right message.

Water skiing, Wakeboarding and Towing

The towing vessel

- Must have current registration.
- Must have a minimum crew of two – the master (driver) and an observer (also applies to PWC when towing unless tow-in surfing).
- Must have a safety label (or PWC behaviour label).
- Must carry appropriate safety equipment.
- The towed person must be at least 7m behind the boat.

The driver

- Must hold a General Licence if the vessel will be operated at 10 knots or more, or PWC Licence when operating a PWC at any speed.
- Is responsible for the safety of the vessel and towed people and for maintaining the minimum distances off applicable to the boat and the skier(s).
- Must not be under the influence of alcohol or a drug.
- **No more than three persons can be towed at once.**



The observer

- Must be 16 years of age or older, or the holder of a Young Adult Licence.
- Must not suffer hearing, sight, or other disabilities which could affect the performance of observation duties and must not be under the influence of alcohol or a drug.
- Has the prime responsibility of observing the towed people and reporting all matters affecting them to the master.
- Tells the driver about other vessels approaching from behind.
- Should be familiar with the standard hand signals.

NOTE: When towing the observer must face backwards to watch the person being towed whilst the driver faces forward to maintain lookout.

The towed person

- Must wear a lifejacket (see page 20).
- Must maintain the minimum distances off and, when returning to shore, must do so safely.
- Must not be under the influence of alcohol or a drug.

Distances off

When towing at any speed keep both the vessel and the towed person at least:

- **30 metres** from power-driven vessels not towing skiers, moored vessels, the shore, and structures (including jetties, bridges, moorings and navigation markers) or, if that is not possible, a safe distance.
- **60 metres** from persons (e.g. fallen skiers and aquaplaners, swimmers) and non-powered vessels (sailing and passive) or, if that is not possible, a safe distance.

- If towing aerial equipment (e.g. paraflying) keep both the vessel, towed person and equipment at least:
 - **300 metres** from any bridge, cable, wire, pipeline or structure.

NOTE: These distances apply when approaching other vessels or persons from any direction including when following another vessel.



No towing areas

In some areas water-skiing and wakeboarding etc may be prohibited and signs may be displayed.

In other areas, water-skiing may not be possible because of the location of hazards or a safe distance cannot be maintained.

Towing prohibited

- Towing is prohibited between sunset and sunrise.
- 'Teak' surfing (being pulled through the water while holding the swim platform of a vessel) is prohibited at all times.

Canoes and Kayaks

Canoes and kayaks are classified as vessels and must comply with NSW marine legislation. An understanding of the safe boating rules that apply to canoes and kayaks will help paddlers enjoy their sport in safety.

Conflict between canoes and kayaks and power vessels may occur when the available water is restricted, particularly in busy waterways such as Sydney Harbour.

Lifejackets

Lifejackets are required to be worn when paddling more than 100 metres from the nearest shore on enclosed waters and at all times on open (ocean) waters.

The operator of the canoe or kayak is responsible to ensure that all persons on board comply.

Other safety equipment is not required, with the exception of a torch, between sunset and sunrise. Additional equipment is recommended for activities such as sea kayaking.

Paddle Smart

When Paddling You MUST

Keep safe, stay right

- Where possible paddle outside the channel
- Don't paddle in the centre of the channel or river



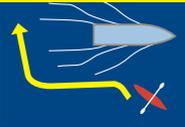
Keep a proper lookout

- Use your eyes and ears to keep a good lookout
- Take care when entering or crossing channels



Keep clear of larger vessels

- Cross behind, not in front
- Remember powerboat wash can capsize small craft



Wear a lifejacket

- When more than 100m from shore or on open (ocean) or alpine waters

ALL REGULATIONS FOR AVOIDING COLLISIONS APPLY.
SHOW REQUIRED LIGHTS AT NIGHT.

Info Line: 13 12 56
www.maritime.nsw.gov.au



Safety in canoes and kayaks

Paddle craft are small and sit low in the water, making it difficult for skippers of other vessels to see them in some situations. Take care when operating near other vessels and when crossing channels. It is important to be clearly visible while on the water. Suggested precautions to take:

- Attach a high visibility flag to your canoe/kayak.
- Wear highly visible clothing.
- Paddle in tight formation.
- Stay close to shore line.
- Keep to the starboard side of the channel, and
- Paddle during daylight hours or, if paddling in restricted visibility or between sunset and

sunrise, exhibit two all round continuous or flashing white lights, one attached to the canoe or kayak at or near the forward end and the other one attached at or near the aft end. The light is to be visible in clear conditions from a distance of 1km and may be masked so as not to interfere with the vision of the occupants, provided at least one light is visible from any direction.

Paddle craft are lightweight and narrow, resulting in poor stability. Take care when boarding paddle craft, and placing any large or heavy items on board.

Be careful of sudden movement within the craft that may affect stability, as stability is largely dependent on the placement and movement of persons onboard.

Paddle craft are very portable and may be used in diverse areas from busy harbours through to remote inland waterways. Be sure to familiarise yourself with the particular hazards that may be present before embarking on a canoe or kayak trip (see the section on special areas in this handbook).

If you intend paddling in remote areas, tell someone where you are going and when you intend to return. Carry a hand held marine radio or mobile phone in case of emergency.



Sailboarding/Kitesurfing

Sailboarding (sometimes referred to as windsurfing) and kitesurfing (sometimes referred to as kiteboarding) are surface water sports that combine elements of surfing with sailing and kiting, harnessing the power of the wind.

Both sailboards and kiteboards are classified as vessels and therefore come under NSW marine legislation.

Distance off

When travelling at 10 knots or more, sailboarders/kitesurfers and their equipment, including kite and lines, must:

- Maintain a minimum distance of **60m** from any persons or non-powered vessels or **30m** from powered vessels and any objects in the water or, if that is not possible, a safe distance.
- Stay out of a designated swimming zone (see page 34).

Lifejacket

An appropriate lifejacket must be worn when sailboarding more than **400m** from the nearest shore.

An appropriate lifejacket must be worn when kitesurfing more than **400m** from shore and kiting alone.

No-go/Caution areas

Sydney Harbour is a no-go zone for sailboarding and kitesurfing.

At Pittwater off Station Beach, caution is required as this is a seaplane landing and take-off area. Appropriate warning signs have been established north and south of the seaplane wharf.

Other locations may have no-go areas imposed by local signage. Check with your local NSW Maritime Operations Centre or visit Maritime's website to view relevant boating maps for details.

Safety tips

- Take extreme care when launching.
- Keep a proper lookout at all times.
- Maintain proper distances off when operating in the vicinity of surfers outside the designated surf zone.
- Keep a proper lookout at all times for obstructions, other craft or swimmers.
- Look all around – even behind you.
- Carry a hand held marine radio or mobile phone in case of emergency.

Give way

Power driven craft must give way to sailcraft such as sailboards/kiteboards unless the sailboarder/kitesurfer is in the process of overtaking.

A sailboarder/kitesurfer overtaking any other craft (power or sail) must keep well clear of the vessel being overtaken.



Personal Watercraft

Personal watercraft (PWC) is the term used to describe vessels otherwise known by trade names such as Jet Skis, Waverunners and Sea Doos. Regardless of the type of PWC it is important to remember PWC are just another form of powerboat and are generally subject to similar regulations and laws. However, there are also some special rules that apply to the use of these craft.

- A PWC Driver's Licence is required to drive a PWC at any speed.
- All PWC must be registered if used on NSW waterways.
- All persons on a PWC must wear a lifejacket at all times.

NOTE: Penalties apply to PWC owners if their craft is driven by a person who does not hold a current PWC licence.

FOR DETAILED INFORMATION ABOUT PWC REFER TO THE PWC HANDBOOK. ALSO AVAILABLE ON WEBSITE.



(1) PWC Exclusion Zone

The PWC Exclusion Zone includes the waters of Sydney Harbour, including the waters of all tidal bays, river and tributaries (includes Parramatta River, Middle Harbour and Lane Cove River).

PWCs are not permitted to be driven in the Exclusion Zone at any time, unless exempt.

Penalties apply.

(2) PWC Restriction Zone

This zone encompasses the bays, rivers and other waterways within the Sydney basin area which lies between Port Hacking, Wamberal and the Blue Mountains, but does not include open (ocean) waters.

PWC are not permitted to be operated in an 'irregular manner' within **200m** of the shoreline of the above. Examples of operating in an irregular manner are:

- Driving in a circle or other pattern.
- Weaving or diverting.
- Surfing down or jumping over or across any swell, wave or wash.

This means that PWC are required to be operated generally in a straight line within 200m of the shoreline.

(3) No Go PWC areas

There are some areas throughout the State in which PWC use is prohibited. PWC are not permitted to be driven in these areas at any time, unless exempt.

Check with your local NSW Maritime Operations Centre or visit Maritime's website to view PWC operating areas or the relevant boating maps for details.

Penalties apply.

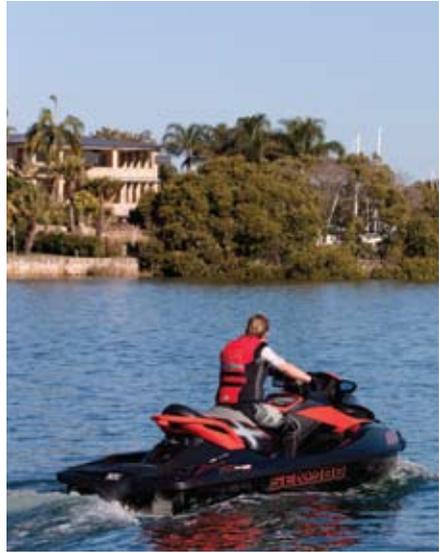
(4) All other navigable waters

In all navigable waters, other than (2) and including all of the NSW coast, 'operating in an irregular manner' is not permitted within **200m** of the shoreline where one or more dwellings are visible within **200m** of that shore.

After sunset

Driving a PWC between sunset and sunrise is prohibited, regardless of whether navigation lights are fitted.

NOTE: Operating in an irregular manner does not apply when a PWC is towing a water-skier or aquaplaner. However, as soon as towing activity is finished the operating in an irregular manner rule comes into effect.



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Communication and rescue

Emergency words

All calls are repeated three times.

MAYDAY

A mayday call denotes an emergency involving imminent danger to a vessel and the people on board. If you hear a mayday call you should not transmit, but continue to monitor the radio.

If a shore station such as the local Marine Rescue NSW unit fails to respond to the call, you should attempt to relay the message and render any assistance.

An example of a mayday message could be:

“Mayday, Mayday, Mayday this is *Phantom*, this is *Phantom*, this is *Phantom*, a 5m red half-cabin, I am three miles off Red Head, we have been swamped by a wave and we are sinking. There are four people overboard. Over.”

PAN PAN

Pan Pan is an urgency message that indicates a vessel is in trouble but not in immediate danger, for example: “Pan Pan, Pan Pan, Pan Pan, this is *Phantom*, this is *Phantom*, this is *Phantom*, a 5m red half-cabin, I am three miles off Red Head, we have been disabled by a wave and require a tow. There are four people onboard. Over.”

SECURITE

Securite messages (pronounced “say-cure-e-tay”) generally prefix navigational safety messages such as weather reports or navigation hazard updates, for example: “Securite, Securite, Securite, all ships, all ships, all ships, this is Coast Radio Sydney, Coast Radio Sydney for a renewal of a strong wind warning please switch to channel VHF 67. Out.”

Search and rescue

Before a search can be initiated, someone must know that you are either in trouble or overdue. So tell someone where you are going, how many people are on board and when you expect to return.

It is strongly recommended that you log on and log off with Marine Rescue NSW.

There are a number of ways that a search and rescue agency can be alerted, including radio distress calls, distress flares, overdue reports and activation of an EPIRB.

AusSAR, a division of the Australian Maritime Safety Authority (AMSA), is Australia’s national search and rescue authority and runs the Rescue Co-ordination Centre (RCC Australia) in Canberra.

RCC Australia can be contacted 24 hours a day on 1800 641 792.

Under federal regulations, operators of VHF and MF/HF radios are required to hold an operating certificate. The normal certificate for VHF recreational operators is the Marine Radio Operators VHF Certificate (MROVCP). Marine Rescue NSW offers this course, or check www.vhfradioonline.com for more details.

Operators of 27 MHz equipment are not required to hold a certificate but are strongly encouraged to obtain one for their own and other users’ safety.

Fire and fuels

Fuel fires aboard small vessels spread rapidly and generate intense heat. Few people are able to successfully combat them.

The answer to the issue lies in preventing fires rather than fighting them.

Petrol/Other fuel

A number of fires or explosions occur immediately after vessels have been refuelled. By using common sense and taking proper precautions, boating fires can be prevented as follows:



- Have an approved fire extinguisher, service it regularly and know how to use it.
- Keep the bilge, engine compartment and engine clean and free of combustible materials.
- Check engine compartments are properly ventilated (especially on hot days and when recently refuelled.)
- Be careful when using fuel stoves and lamps – don't store your extinguisher close to the stove or engine compartment.
- Check your fuel system regularly for leaks.
- Check the electrical system for faults and keep all components in a clean state.
- Don't fill your fuel caddies in the boat; take them ashore when fuelling.
- Clean up fuel spills quickly.

LP gas

Liquified Petroleum Gas (LPG) is non-corrosive and clean-burning. It can cause suffocation if inhaled in sufficient volume.

When buying or selling a boat fitted with LPG

burning appliances you should ensure that the gas cylinders have been inspected and that the equipment and hoses are in safe working order.

LPG has the same characteristics as water and will flow downwards and gather in the bilge.

Gas storage bottles should be located in a well-ventilated space. You should:

- Ensure all LPG installations are performed and serviced by a licensed gas fitter.
- Ensure all appliances are firmly secured and protected from draughts.
- Ensure cylinders and appliances are suitable for marine use.

In the event of fire, remove LPG cylinders from the heat source. If this is not possible, keep the cylinder cool by spraying water onto it. If flames are threatening to engulf a gas cylinder the vessel should be evacuated.

In the event of a gas leak stop all motors, close all cylinder valves, turn off all appliances and ventilate the vessel. Do not operate any electrical switches until the air is clear.

Leakages can lead to suffocation or explosion. To assist in early detection of leaks a strong odour has been added to LPG, but you should consider installing a gas detector:

Biofuels

In the interests of promoting the use of cleaner, greener, locally made fuels in NSW, the State government has taken steps to ensure the broader use of biofuels.

Biofuels are suitable for most applications where they are cycled quickly. Although marine engine manufacturers are producing new engines capable of using biofuels, boat owners need to be aware there are still significant safety and fuel management issues.

Implications for petrol engine owners:

Normally ethanol blended fuel is not recommended in a marine application because ethanol absorbs water readily and it may separate

from the petrol, resulting in engine failure. Ethanol is a solvent and may cause problems for carburettors, fibreglass fuel tanks, rubber fuel lines, fittings, seals and filtration systems, particularly in older engines and non-standard engines.

Implications for diesel engine owners:

Biodiesel exhibits poor oxidation stability and is a medium for microbial growth. Both of these factors contribute to its breakdown, which can result in accelerated engine wear, the breakdown of engine lubricants and blockages of oil and fuel filters. Its solvent properties can result in damage to certain components including seals and hoses.

To avoid petrol with ethanol, buy either higher octane rated fuel which doesn't contain ethanol or regular unleaded petrol from a marina. Diesel blends of up to five per cent biodiesel do not require labelling, so always ask your marina operator before you fill your tank.

Person overboard

If someone falls overboard from a small open runabout, make sure that everyone onboard keeps the person in sight while you manoeuvre to pick them up.

In bigger craft and when operating offshore, throw over a lifejacket or marker immediately. If you lose sight of them this will act as a starting point for a search.

Keep the person in sight at all times; tell passengers to act as lookouts. Quickly establish your position either by reference to shore marks or by a GPS position. An accurate position will be essential if the search requires outside assistance.

Once the person is alongside, stop the engine and make sure that the weight in the vessel is redistributed before attempting to bring them on board. Consider bringing them over the stern if the vessel is unstable.

Propeller strikes

Boat propellers pose a risk that can too easily be ignored because they are 'out of sight and out of

mind'. A strike from a propeller can cause serious injury or even death.

Propeller-related injuries are preventable and the skipper should take precautions to ensure the safety of all on board.

Spinning props a 'hazard zone'

The skipper should consider the area around the prop as a 'hazard zone' and be vigilant in ensuring that no part of any person comes near a spinning prop. Being aware of this hazard zone is particularly important for people involved in tow sports like water-skiing and wakeboarding and where powerboats are used near swimmers or children such as sailing schools or surf clubs.

Propeller precautions

NSW Maritime recommends some basic safety guidelines as follows:

- Inspect the area near the stern to ensure the area is all clear before starting the engine.
- Turn the engine off near people in the water as some propellers may continue to spin, even in neutral.
- Keep a proper lookout at all times when underway, especially when near swimmers.
- Stay out of designated swimming areas.
- Observe 'distance off' rules and keep clear of people in the water, passive craft and other vessels.
- Brief any person driving the powerboat on the risks.
- Keep all arms and legs inside the boat and not over the bow or sides – bowriding and 'teak surfing' (holding onto the stern of a boat that is underway) are illegal in NSW.
- Wear a kill-switch lanyard when boating alone. A kill-switch lanyard is attached to the arm and stops the engine when pulled out.



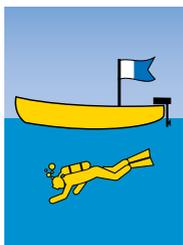
Skipper's can also consider technology such as wireless engine cut-off switches, propeller guards and alternative propulsion systems. The best action, however, is for skipper's to take care, keep a proper lookout at all times and keep people out of the 'hazard zone'.

Divers and swimmers

Make sure you keep a good lookout for snorkellers, spearfishers, divers and swimmers.

Be especially alert when you see the "Alfa" flag which means there are divers below.

If you are diving from a vessel you must display this flag and it is strongly recommended that you use the Alfa flag at all times while snorkelling, diving and ocean swimming.



Hypothermia

Hypothermia is the effect of heat loss from the body. Hypothermia occurs when a person's body temperature is lowered to less than 35°C and affects your brain, heart and other internal organs.

While your body begins to cool as soon as you enter the water the full effect of hypothermia can take around 30 minutes.

Some of the effects of hypothermia are a reduction of blood flow to the hands, feet and surface of the body, intense shivering in the early stages as the body tries to maintain its core temperature and no shivering in the later stages.

To reduce the risk of hypothermia wear warm, preferably woollen, clothing under wet weather gear.

Various techniques have been developed to prolong survival time, including:

- **HELP** (Heat Escape Lessening Posture) – limit body heat loss by holding your arms down to your sides and up across your chest, and raising your knees and holding them together.

- **Huddle** – by huddling close together with other people, so that your chest and arms are protected, you can reduce the rate at which your body loses heat and increase survival time by up to 50 percent. This is the most effective method of reducing the onset of hypothermia if there is a group in the water.

The key to avoiding cold water immersion and hypothermia is to stay out of the water. Keep the vessel's deck and other areas free of slipping and tripping hazards.

If you do fall in remember, don't inhale water, don't panic, keep as much of your body out of the water and wear a lifejacket – it can be the difference in a survival situation.



Treating hypothermia

Hypothermia can be mistaken for drowsiness. There are, however, some signs and symptoms which will allow you to make an immediate evaluation:

- Adults: cold to touch; pulse slow, weak or imperceptible; breathing slow and shallow.
- Children: cold to touch; quiet and lacking appetite.

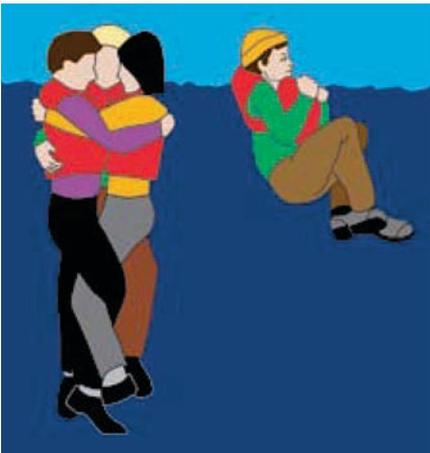
EMERGENCIES

To treat hypothermia you must act quickly but gently. Never give the patient alcohol or an unwrapped hot-water bottle. The best method of treatment is to allow the patient to warm naturally where possible and you should:

- Remove all wet clothing when warm, dry clothing or blankets are available.
- Allow the patient to warm gradually with the aid of warm towels and blankets or gentle sources of warmth, including body heat.
- Transport the victim to medical aid without delay. Their survival could depend on it.
- Keep an aluminium “space blanket” on board.

Huddle Position

HELP Position



Carbon monoxide

Carbon monoxide is a colourless and odourless gas produced when carbon based fuel, such as gasoline, diesel, propane, charcoal, or oil burns. High concentrations of carbon monoxide can be fatal within minutes.

Symptoms of carbon monoxide poisoning include irritated eyes, headaches, nausea and dizziness. As these symptoms are similar to seasickness and

intoxication those affected may not receive the medical attention they need.

Boaters need to be aware of the sources inside and outside the vessel that produce carbon monoxide such as engines, generators and fuel burning cooking equipment. Owners of vessels fitted with a rear vented exhaust system should remind passengers and swimmers that the rear deck and swim platform areas should be avoided when engines are running due to the levels of carbon monoxide.

Following is a list of things to do if you suspect a person has been affected by carbon monoxide. Remember to proceed with caution. The victim may be in an area that has high exposure to carbon monoxide, placing you and others in danger.

- Evaluate the situation and ventilate the area if possible.
- Evacuate the area and place the affected victim(s) in fresh air.
- Observe the victim(s) and administer oxygen if possible.
- Contact medical help. If the person is not breathing perform cardiopulmonary resuscitation (CPR) until help arrives.
- Shut off the potential source of carbon monoxide if possible. Correct ventilation problems and/or repair exhaust problems as appropriate.

Incident reporting

If a boating accident occurs in any port or navigable water in NSW, the master of the vessel must:

- Stop the vessel immediately.
- Give any assistance which may be necessary.
- Produce any licence.
- Give details to any person having reasonable grounds for requesting them (e.g. other persons involved in the accident).

- Details must include the master's name and address and any distinguishing number (that is, registration number or permit number) which is required to be displayed on the vessel.

If requested by a NSW Maritime officer or any Police officer, provide the following details:

- Full identification;
- Time, place and nature of accident;
- Name and registration number of every vessel involved in the incident;
- Name and address of every person who was concerned with or witnessed the accident;
- Extent of any injury or damage resulting from the accident;
- Produce a boat driver's licence or certificate of competency.

Where the accident has resulted in the death of, or injury to, a person; or damage in excess of \$5000 to a vessel, or any other property, a written report must be forwarded to NSW Maritime within 24 hours setting out the particulars, unless these have already been given to a NSW Maritime officer.

Vessel Incident Report Forms

Vessel Incident Report forms are available from any NSW Maritime operations centre, or download from NSW Maritime's website, the Police, and Marine Rescue NSW.

NOTE: Penalties apply for not reporting an accident to NSW Maritime.

Emergency Contacts: Tel 000 or VHF16

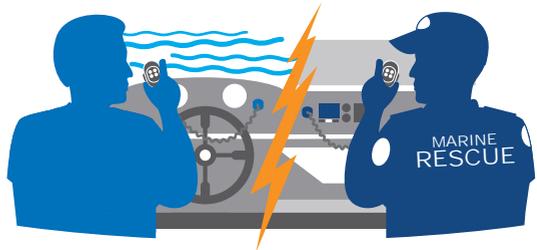


Log On for Your Life with MARINE RESCUE NSW

Marine Rescue NSW is a vital safety net on the NSW coast and waterways for boaties, their families and friends. Our 3,200 skilled volunteers are there to help at 50 Marine Rescue locations, including 42 radio bases.

When you use your marine radio to **Log On** with your local Marine Rescue unit you're ensuring that someone responsible is keeping watch for you. If you don't **Log Off** when you're due back they'll take action to find you.

Enjoy safer boating with Marine Rescue NSW. Find your local unit on www.MarineRescueNSW.com.au and become a radio member for quick and easy Log Ons.



Saving lives on the water

MR1209

MARINE RESCUE NSW - www.MarineRescueNSW.com.au

Other licences

Aquatic licences

An aquatic licence is required by any person or organisation conducting, promoting or organising a race, competition or exhibition or any other activity which restricts the availability of navigable waters for normal use by the public.

Penalties apply for conducting such an event / activity without an aquatic licence.

Applications for aquatic licences, supporting documentation and an appropriate fee must be submitted to NSW Maritime a minimum of four weeks prior to commencement of the event/ activity, otherwise the application may be refused or a late fee payable.

If the aquatic licence requires the exclusive use of an area of water then a 'special event' may have to be declared, and NSW Maritime may require a fee for placing a required notice in the local newspaper.

Mooring licences

A mooring is used to secure a vessel in a particular location. There are various types of moorings including:

- Private – Licence permits you to moor your vessel on navigable waters subject to a range of conditions and is renewable annually.
- Commercial – Licence issued to a company or other legal business entity trading to provide marine type services to the boating public subject to a range of conditions.
- Emergency – Used by NSW Maritime or Water Police to store vessels in emergency situations.
- Courtesy – Freely available for use by the general boating public on a 24 hour basis.

Private mooring licences, subject to availability, allow a vessel to be secured to a mooring in a particular location. Private mooring licences are only issued with respect to a specific vessel and to individuals.

The individual must:

- Nominate a vessel of at least 5.2 metres registered in their name; and
- Be the sole owner or equal majority shareholder of the vessel.

In high demand areas where mooring sites are not readily available, applicants will be placed on a priority waiting list in strict order of application date. When a mooring site becomes available, the person on top of the priority list will be offered the site. An annual mooring fee is payable and is based on the mooring location and length of vessel.

Prior to changing a vessel associated with a mooring licence, the licensee must notify NSW Maritime in writing and pay a change of vessel fee.

Hire and drive licences

This information is provided for anyone wishing to become a 'hire and drive' licensee and anyone wishing to hire a vessel.

A person conducting a hire business must be licensed by NSW Maritime.

The term 'hire and drive' applies to a vessel that is made available to the public for hire for recreational use and is:

- A powered vessel less than 7.5m in length, including 'tinnies' and PWC; or
- A passive (unpowered) vessel less than 10m in length, such as a rowboat, canoe, kayak, pedalcraft, inflatable, sailboard, catamaran or sailing vessel.

Licensing of these businesses is required to ensure that hire vessels are of a suitable standard and that hire operators follow appropriate and consistent procedures before hiring a vessel to a member of the public.

Hire and drive licensees are required to display their licence in a prominent place at the hire premises and all hire vessels must display a unique identifying number and details of the licensee, such as the company logo.

If you suspect a hire operator is not licensed, or you have a complaint regarding a hire and

drive operator, call NSW Maritime's Infoline on 13 12 56.

People hiring a hire and drive vessel must observe the marine regulations and safety requirements at all times. In particular, hirers must comply with lifejacket carrying and wearing requirements.

For further information visit the hire and drive section at www.maritime.nsw.gov.au.

Environment

The pollution of our waterways can spoil not only the environment but also boating and other on-water activities. Recreational and commercial boaters have a responsibility to properly dispose of vessel waste.

The *Marine Pollution Act 1987* and the *Protection of the Environment Operations Act 1997* set out requirements to prevent pollution and protect the NSW marine environment.

Sewage Disposal

It is illegal to discharge raw sewage into NSW waterways. NSW Maritime officers can issue on-the-spot fines for polluting the water. Serious matters may be dealt with in court.



Passenger-carrying commercial vessels and houseboats in NSW are required to install holding tanks to prevent the discharge of raw sewage.

Recreational boaters with an onboard toilet should also install a holding tank.

Raw sewage from a holding tank or portable toilet should be deposited at appropriate pumpout facilities and never into NSW waterways. Public pump-out facilities are provided in many locations throughout NSW. Some marinas also provide private pumpout facilities for clients.

For details, visit the NSW Maritime website www.maritime.nsw.gov.au or call the Infoline 13 12 56.

An approved onboard sewage treatment system can also be used, but remember certain areas are declared as 'no-discharge zones'. Treated sewage should never be discharged in inland waterways or within 500 metres of moorings, marinas, anchorages, swimming beaches or aquaculture sites.

Disposal of Other Waste

It is illegal to pollute NSW waterways in any way and sensible environmental practices on and around the water will go a long way towards preserving NSW waterways for future generations. For example:

- Collect all your rubbish on board and dispose of it properly ashore.
- Wipe cooking utensils and plates clean with a paper towel before washing.
- Use low or non-phosphate soaps in sinks and showers.
- Keep bilges clean to prevent pollutants being discharged overboard.
- Remove your boat from the water and clean it in places where debris can be captured and disposed of properly.

More information is contained in the *Leave Only Water in Your Wake* pamphlet, available from NSW Maritime.

Shellfish Harvest Areas

The NSW shellfish industry is the largest aquaculture industry in the state; however the success of this industry is totally dependent on water quality to deliver a safe product to consumers. The majority of NSW estuaries have designated areas for commercial shellfish harvest and the discharge of treated sewage in these areas could have a devastating impact on the industry. Please use sewage pump-out facilities for vessels and on-shore toilets where available to ensure the highest level of water quality protection for the commercial and recreational harvest of shellfish.



Noise

The main thing to consider under noise control legislation is the concept of offensive noise, which is based upon how a “reasonable person” would react.

In deciding whether the noise from a motor vessel is offensive, the following factors are considered:

- The character of the noise.
- The quality of the noise.
- The noise level.
- The effect the noise has on activities.
- The time of the noise event, eg. early morning.

- The waterside land use.

Noise also disturbs wildlife. Care should be taken to reduce noise in the vicinity of waterbirds and other animals.

Bank erosion and wash

The wash from a vessel can erode banks in sheltered waterways. The larger the wake, the greater the potential for bank erosion.

NSW Maritime has introduced wash restrictions in areas where vessel wash has potential to erode shorelines. Every skipper must comply with “no wash” signs.



Be aware of restrictions on vessel noise and wash



Seagrass beds are easily damaged by anchors, propellers and marine jet drives

Seagrasses

Seagrass beds provide food and shelter to a wide variety of fish and invertebrates. They also help bind the sea floor and improve water quality.

Seagrass has already been lost in some areas through the effects of water pollution, foreshore development and the recreational and commercial use of our waterways. You can help to preserve our seagrasses by adhering to the following:

- Do not drive your boat across shallow, weedy areas, as boat propellers and jet propulsion units may damage seagrass.
- Do not anchor on seagrass beds.

- If you need to replace your mooring and it is currently over a seagrass bed, contact your local NSW Maritime office to discuss other options.

Aquatic weeds

Aquatic weeds include freshwater plants such as *Salvinia*, *Cabomba* and alligator weed, as well as the marine seaweed *Caulerpa taxifolia*, which has been found in several estuaries along the South and Central Coasts of NSW.

Aquatic weeds can seriously harm the environmental and recreational value of rivers, estuaries and lakes. These weeds are often highly



Caulerpa taxifolia



Propeller heavily fouled in aquatic vegetation

GENERAL INFORMATION

invasive and can smother and choke water bodies by forming large floating mats, dense submerged thickets or stands along the bank. A single infestation of *Salvinia* once smothered 80 km of the Hawkesbury River.

Aquatic weeds can deplete oxygen levels, reduce sunlight penetration and displace native plants. The associated affects on water quality and available habitat can reduce the abundance and diversity of fish and other aquatic animals and displace waterbirds. In some cases, boating restrictions are required to minimise the spread of aquatic weeds, while heavy infestations can make boating impossible.

These weeds can be spread in a variety of ways. Propellers and anchors can cut plants into fragments that are then easily spread by currents. Fragments can be introduced to new waterbodies via vessels, trailers and fishing equipment. A single plant fragment can start a new infestation, and

some weeds can survive for several days out of water – especially in damp conditions amongst ropes, diving equipment and fishing gear etc.

If you are boating in a *Caulerpa* infested area or on freshwater rivers, lakes and dams you should:

- Avoid shallow weedy areas or places with heavy aquatic plant growth where possible.
- Obey any local vessel exclusion zones or fishing closures.
- Inspect all ropes, anchors and fishing gear before and after use.
- Clean your boat, trailer and all equipment after removal from the water and before moving to another waterway.
- Learn to recognise aquatic weeds and be observant for new or unusual weeds.

If you suspect a new weed infestation in freshwaters, contact your local council weed officer or Industry & Investment NSW on



Heavy infestation of floating weed

1800 680 244 or email weeds@industry.nsw.gov.au. Further information on freshwater weeds can be found at www.dpi.nsw.gov.au/agriculture/pests-weeds/weeds.

If you suspect a new infestation of *Caulerpa* or other marine weed, contact NSW's Biosecurity Unit on (02) 4982 1232, or by email to aquatic.pests@dpi.nsw.gov.au. Further information on *Caulerpa* and other marine pests is available at www.dpi.nsw.gov.au/fisheries/pest-diseases/marine-pests.

Protected aquatic animals

All native mammals, birds and reptiles are protected in NSW. Vessel operators must keep an active lookout to avoid harming these animals.

Protected aquatic animals include whales, seals, dolphins, penguins and turtles, as well as a variety of water birds.

Boat-based whale watching has become a popular activity. To safeguard whales and minimise danger to vessels, there are certain rules governing vessel speeds and approach distances around whales (see diagram).



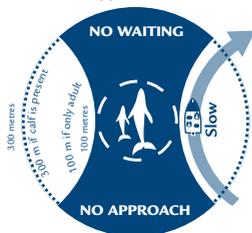
All vessels (powered and un-powered) must stay at least **100 metres** from a whale (**300m** if whale is with calf) and maintain a slow 'no wash' speed while within **300 metres**.

Little penguins are another endangered species and parts of Sydney Harbour have been declared 'critical habitat' to better protect them. Special rules apply in this area during the penguins' breeding season (1 July to 28 February), including restrictions on anchoring, fishing and vessel access in the Spring Cove area.

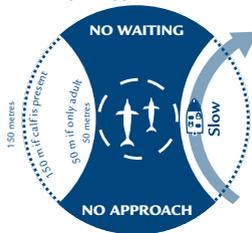
For further details about the protection of whales, penguins, seals and other aquatic animals, visit the National Parks and Wildlife Service website on www.environment.nsw.gov.au/nationalparks

Whale and dolphin watching

Whale approach distances



Dolphin approach distances



Advice to skippers

- Go slow when within 300m of whales and 150m of dolphins
- No more than three vessels at a time should approach whales or dolphins. Wait for your turn and don't barge in
- Start your approach at an angle of at least 30 degrees to their direction of travel
- If a whale approaches your vessel:
 - ~ Slow down to 'no wash' speed
 - ~ Move away or disengage your vessel's gears
 - ~ Make no sudden movement
 - ~ Minimise noise

Boat Maintenance

It is important to ensure your vessel is in good order by inspecting the key features of the vessel each time before you leave home or the ramp, mooring or wharf. The major causes of breakdown at sea are engine failure, fuel shortage or contamination, mechanical failure and battery failure.

The vessel checklist

- On entering the vessel, and before operating any switches or engines, check for petrol and/ or LPG odours; fix any faults before you go out.
- Ensure the vessel is well ventilated to prevent carbon monoxide build up from exhaust systems.
- Inspect the bilges. If there is more bilge water than usual, find and rectify the fault. Note: when pumping bilges be aware of the environment. Polluting the waterways is an offence.
- Check fuel, engine oil and coolant levels. Top up if required. Examine batteries, terminals etc. Do the same for the second engine if carried.
- Check the fire extinguisher is in good condition.
- Ensure there is sufficient fresh water and food for the length of the voyage with some extra in case of emergency.
- Make sure your lights are in working order; it may be a daylight outing, but you could be delayed in returning.
- Fuel should be fresh (not last year's) and you should have enough fuel for the full trip plus reserve.
- Self-draining holes should be clear.
- Ropes and lines should be in good condition and stored ready for use.
- Steering cables and connections must be in good working order.
- Inspect the battery.
- Check that appropriate anchors are on board and are properly rigged, stowed and ready for use.
- Have one appropriate lifejacket for each person on board and accessible.
- Children should have suitably-sized lifejackets and look at means of rigging lifelines in open areas so that children have enough handholds.
- If you have a radio, make sure it is on and working. The best way to do this is to report the details for your vessel and voyage to a coast radio station or local base station.
- Have up-to-date charts showing ports along your route.
- Ensure you have a complete first aid kit.
- Essential tools and spare parts should be in good condition.
- Keep a sharp knife in a handy place; you may need it to cut ropes etc.
- Have a rescue quito or lifebuoy ready for use.
- Have a whistle, mirror, marker dye, flares for emergency signalling.
- Do not overload your vessel.
- Don't forget the bung!

Recommended spare parts

(minimum suggested items)

O = outboard powered vessels

I = inboard powered vessels

Y = yacht

- pulley belts (IY)
- 'D' shackles (OIY)
- fuses for motor and radio (OIY)
- propeller (O)
- spark plugs (OI)
- starter cord (O)
- fuel filter (OIY)

- shear pins for propeller/spare nuts and bolts (OIY)
- roll of waterproof electrical tape (OIY)
- spare fuel line (OI)
- electrical wire (OI).

Recommended tool kit

(minimum suggested items)

- bolt/wire cutters (Y)
- adjustable spanners (OIY)
- small metal file (OIY)
- screwdrivers (OIY)
- hacksaw and blade (OIY)
- pliers (OIY)
- wire brush (OIY)
- water displacement spray (OIY)
- spark plug spanner (OI).

Motor maintenance

Regular maintenance will ensure some of the following parts won't let you down.

Water pump: replace regularly especially if you have been operating in the shallows and stirring sand or mud. Water pump impellers also deteriorate if not used for lengthy periods.

Fuel filters and lines: filters become clogged and lines can harden with age and exposure.

Propellers: the bushing of the propeller can fail especially if it has hit sand or rocks. Always carry a spare shear pin.

Spark plugs: plugs can break down unexpectedly. Carry spares.

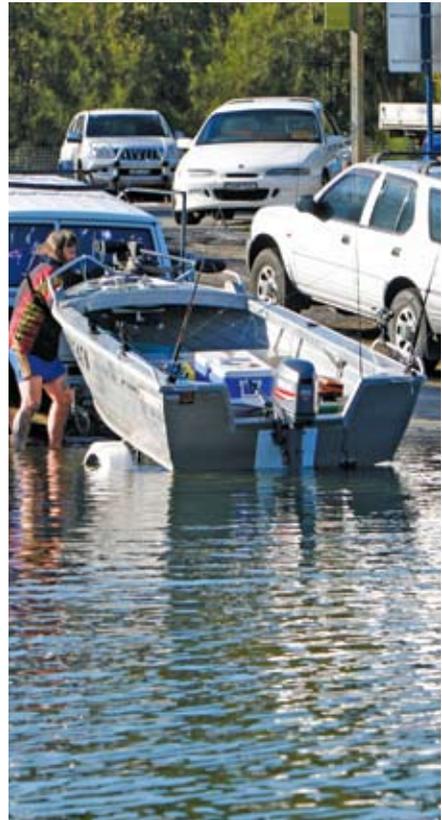
Gear box oil: snagged fishing line on the drive shaft is a common cause of leaking gear box seals. Water in the gear box will eventually cause it to fail. Regular oil changes will prevent this.

Some of the causes for engine failure are minor, so you should be able to troubleshoot a problem.

Take time to learn how to:

- change the filter and primer bowl;
- clean and change spark plugs;
- check for spark;
- check and replace fuses;
- change the propeller;
- clean battery terminals.

Don't be a backyard mechanic – have all major servicing done by a qualified mechanic.



Boating Offences

Penalty notices

If an offence such as speeding is committed, authorised officers (NSW Maritime or Police) may issue a penalty notice requiring payment of a penalty within a prescribed period.

Serious offences

Serious or repeat offences under the marine legislation may result in proceedings in a court after the issue of a court attendance notice.

Such offences may include dangerous or negligent navigation.

Alcohol and drug offences

Breath testing, including random breath testing (RBT), can be conducted on the operator of a vessel while it is underway (including drifting).

RBT does not apply when a vessel is moored, berthed or at anchor. However, a designated driver (skipper) should remain under the legal limit when out on the water in case you need to move your vessel.

Permissible concentration of alcohol limits are as follows:

- **less than 0.02** for commercial vessel operators;
- **0.00** for recreational vessel operators aged under 18 years;
- **less than 0.05** for recreational vessel operators over 18 years.

The operator of a vessel includes anyone steering or exercising control over the course or direction of a vessel and includes the observer in a ski boat or PWC, as well as the person being towed.

NOTE: Penalties apply.

Naval vessels

For safety reasons, people are prohibited from climbing, attaching themselves to or helping another person to attach themselves to a naval vessel.

A 'moving exclusion zone' has also been introduced for naval vessels while on NSW waters. This zone extends **200m** from the bow and **60m** either side of a naval vessel whilst it is underway.

A 'distance off' of **60m** from a naval vessel that is moored, anchored or berthed also applies at all times.

NOTE: Penalties apply.

Other offences

A boat driving licence or certificate of competency may be cancelled or suspended in other instances including after a conviction for negligent and/or dangerous navigation, for causing a nuisance or overloading, or if it is believed the holder is not a 'fit and proper' person to hold the licence, for instance, for repeat offences.

Registration of a vessel may be cancelled or suspended if the vessel has become unsafe or unseaworthy, if it is found to be not a true vessel and is being used as a wharf or pontoon, or if it is environmentally hazardous.

Boating Terms

“Jargon” or specialised language has been developed over the years to refer to specific aspects of boating and provide clear and concise communication. You don’t need to know all of the terminology, but a working knowledge will prove useful.

Terminology Definitions

Abeam

Abreast of, or at right angles to, the fore and aft line of the vessel.

Aft

Towards the “stern”, or rear of the vessel.

Bar

A shallow area formed by sand, mud, gravel, or shingle, near the mouth of a river or at the approach to a harbour which is often dangerous.

Bombora

A shallow area where waves may break.

Bow

The front of the vessel.

Chart datum

The level below which soundings are given on some charts and maps above which are given the drying heights of features. Datum is also the level above which tidal levels and predictions are given in Tide Tables.

Conditions of heightened risk

In relation to a vessel, means conditions when tides, river flows, visibility, rough seas, adverse weather or an emergency cause a risk to the safety of persons onboard the vessel.

Draft

The minimum depth of water a vessel needs to float in.

Ebb tide

The falling or run-out tide.

Enclosed waters

Any port or inland navigable waters in New South Wales.

Fairway

Any navigable channel.

Flood tide

The rising or run-in tide.

Give way

Reduce speed, stop, go astern or alter course so as to keep out of another vessel’s path.

Go astern

Reverse engines or travel backwards.

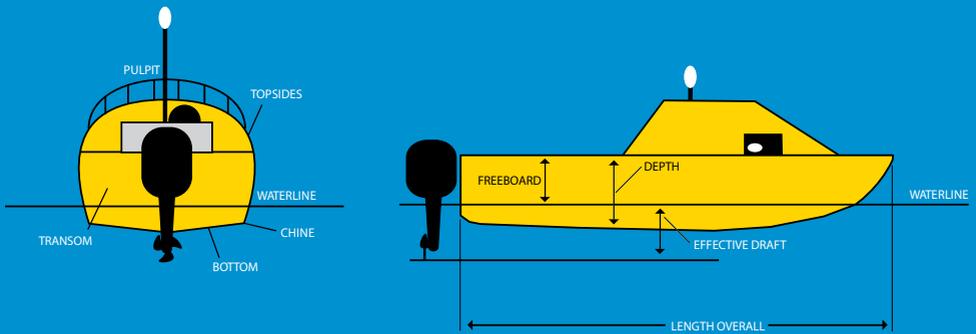
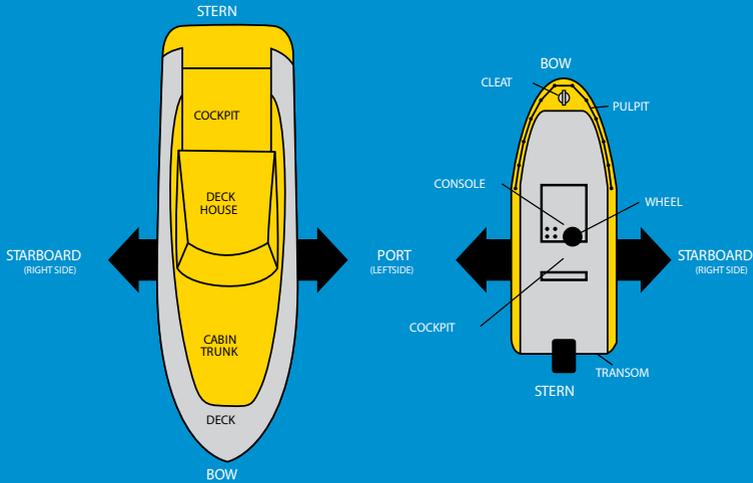
Gunwale

Pronounced “gunnel”, the top edge of the vessel’s sides.



GENERAL INFORMATION

Toward the front of the boat is known as “forward”
and towards the back end, “aft”.



Heave to

Steering into the wind and sea making minimum headway.

Knots (speed)

One knot is a speed of one nautical mile per hour, or 1.852 km/hr.

Leads (transits)

Marks used in channels and at bar entrances which when in line indicate the centre of the navigable channel.

Lee shore

The shore onto which the wind blows.

Leeward

Downwind side.

Open waters

Navigable waters which are not enclosed waters. Sometimes referred to as “ocean”waters.

Open vessel

A vessel that has no part of, or not more than one-quarter of, the area between its gunwales permanently covered so as to hinder water from entering the vessel.

MHWS

Mean High Water Springs is an average value of high tides used on some signs. Makes no allowance for unusual tide conditions.

Port

Includes:

- (a) any harbour or haven, whether natural or artificial, or any estuary, channel, river, creek or roadstead, and
- (b) any navigable water in which vessels may lie for shelter or for the shipment or unshipment of goods or passengers.

Port side

The left hand side of a vessel when you are looking forward from the stern and the side on which a red sidelight is displayed.

PWC

A personal watercraft is a vessel designed to be operated by a person standing, sitting astride or kneeling on. It uses waterjet propulsion and has an engine in a watertight compartment.



GENERAL INFORMATION

Sailing Vessel

A vessel propelled only by sails; when a vessel is under sails but being propelled by engines it is classed as a power driven vessel.

Sea anchor

A parachute like device used to reduce speed and stabilise the vessel in adverse conditions.

Sidelights

Lights to be shown at night when underway, showing an unbroken light over an arc of 112.5 degrees from right ahead to 22.5 degrees abaft the beam.

Spring tide

A tide of relatively large range occurring near the times of New or Full Moon.

Stand on

Continue on the same course and speed.

Starboard side

The right hand side of the vessel when you are looking forward from the stern and the side on which a green sidelight is displayed.

Stern

The back or rear of the vessel.

Tender

- under 3m
- positive buoyancy
- used to transport persons or goods not more than 200m from shore to vessel and vice versa, and between vessels.

Underway

Not at anchor or made fast to the shore or ground. If you are drifting you are underway.

Windward

The direction from which the wind blows (upwind).

NSW Maritime Boating Handbook

The Boating Handbook is produced annually at the start of the summer boating season by NSW Maritime, the State Government Authority responsible for marine safety and regulation of commercial and recreational boating.

While care was taken with the production of this handbook, its purpose is to act as a general guide and to provide information in the form of a broad overview only. NSW Maritime does not accept responsibility for errors or omissions and will not be held liable for any damage or injury arising out of the use or interpretation of any of the material provided in this handbook. For formal legal interpretation, refer to the Marine Legislation at www.legislation.nsw.gov.au or seek independent legal advice.

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BOATING KNOWLEDGE QUIZ

This quiz may help you develop a better understanding of the rules for safe boating. For more questions and to test your knowledge, visit the online quiz at www.maritime.nsw.gov.au

1. When you are driving a vessel at a speed of 10 knots or more or towing a person, what is the MINIMUM distance you MUST keep from a person or non-powered vessel?

- A. 30 metres.
- B. 60 metres.
- C. 100 metres.
- D. 200 metres.

2. You are driving a power boat at night and you see a vessel off your port bow (in front of you, to your left). Who should give way?

- A. The other vessel.
- B. The vessel that you are driving.
- C. The driver of the slowest boat.
- D. The driver of the smaller vessel.

3. When travelling UPSTREAM (away from the sea) at night, on which side should you keep a flashing green light to stay within the channel? Keep it on:

- A. Your port (left hand) side.
- B. Your starboard (right hand) side.
- C. Either side (it does not matter).
- D. Stay in the middle of the channel regardless of the mark.

4. You are driving a vessel at a speed of 10 knots or more or towing a person, what is the MINIMUM distance you must keep from a power vessel or structure (bridge, pylon, jetty)?

- A. 30 metres.
- B. 60 metres.
- C. 100 metres.
- D. 200 metres.

5. When is it COMPULSORY to carry a waterproof torch on NAVIGABLE waters?

- A. Only when travelling at night.
- B. Between sunset and sunrise.
- C. At all times.
- D. Only if going more than 2 nautical miles offshore.

6. Which of the following activities CAN be undertaken by the holder of a young adult boat licence?

- A. Operate any vessel (excluding PWC) under 20 knots while towing a person.
- B. Operate any vessel (excluding PWC) under 20 knots after sunset and before sunrise.
- C. Operate any vessel (excluding PWC) under 10 knots while towing a person.
- D. Operate a Personal Watercraft under 10 knots.

7. What is the minimum distance you must anchor your vessel from a submarine cable?

- A. 200 metres.
- B. 50 metres.
- C. 300 metres.
- D. 100 metres.

8. Flares, 'V' sheet, map and a compass are some of the COMPULSORY items you need on your boat when:

- A. More than 2 nautical miles offshore.
- B. More than 400 metres from any shore.
- C. Operating in 'open' waters.
- D. Weather conditions are poor.

9. An efficient sound signalling device is required to be carried:

- A. Only by vessels proceeding to open waters.
- B. Only by power driven vessels over 8 metres in length.
- C. On all vessels.
- D. Only on vessels operating after sunset.

10. A navigational marker shows a white light flashing quickly in groups of nine flashes. What does it mean? Deeper water is to the:

- A. North.
- B. East.
- C. South.
- D. West.

11. What MUST you do when driving a vessel within a NO WASH ZONE?

- A. Travel at no more than 8 knots.
- B. Travel at a speed shown on a speed restriction zone.
- C. Not tow a water-skier or aquaplaner.
- D. Travel at a speed which creates minimal wash to ensure that your wash does not affect other people or persons.

12. You hear a 'mayday' call on the radio. Your first response should be to:

- A. Monitor the radio. If a shore station fails to respond, attempt to relay the message.
- B. Render assistance immediately.
- C. Ignore the message. Emergency services will respond.
- D. Activate your EPIRB.

13. As the master when crossing a coastal bar it is COMPULSORY to:

- A. Ensure that everyone onboard is wearing an approved lifejacket Type 3.
- B. Notify a coastal radio station of your intention.
- C. Ensure that everyone onboard is wearing an approved lifejacket Type 1.
- D. Proceed only if the bar is flat.

14. The number of persons permitted to be towed behind a vessel is:

- A. Determined by the number of handles on the apparatus being towed.
- B. Whatever the manufacturer states is permissible.
- C. Maximum of three persons.
- D. Whatever the vessel's master (driver) thinks is safe.

15. The responsibility of the master (driver) is to:

- A. Maintain a proper lookout and avoid collision.
- B. Ensure the safety of those onboard the vessel.
- C. Ensure that all safety equipment is accessible and stored onboard correctly.
- D. All of the above.

16. When is a reduction of the maximum number of persons shown on a safety label recommended?

- A. Only when boating in adverse weather conditions.
- B. Only when operating a commercial vessel.
- C. When there are children onboard.
- D. When boating in poor weather conditions or when operating on open waters.

17. What does the word 'securite' indicate when said three times at the start of a message?

- A. A vessel is in trouble but not in immediate danger.
- B. A navigation safety message such as a weather warning is about to be transmitted.
- C. There has been a security breach onboard a vessel.
- D. There is an emergency situation onboard a vessel.

BOATING KNOWLEDGE QUIZ

18. What is the MAXIMUM permissible blood alcohol level for a person aged OVER 18 years when driving a recreational vessel in NSW?

- A. Under 0.08.
- B. Under 0.02.
- C. Under 0.05.
- D. Nil.

19. When should you switch on and display navigation lights on a vessel underway?

- A. Only when it is dark.
- B. From sunset to sunrise and in restricted visibility.
- C. At night only when travelling on open waters (the sea).
- D. At night in port areas only.

20. What is the minimum age of an observer when water skiing/ aquaplaning if NOT the holder of a young adult boat licence?

- A. 14 years.
- B. 15 years.
- C. 16 years.
- D. 18 years.

21. Who should be encouraged to wear a lifejacket at all times?

- A. Children and poor swimmers.
- B. Elderly persons.
- C. Persons with medical conditions (eg heart or breathing problems).
- D. All of the above.

22. You are driving a vessel at high speed and your vision is suddenly affected by sun or spray. Your immediate reaction should be:

- A. Slow down or stop.
- B. Continue driving at speed in anticipation that you will regain your vision.
- C. Increase speed and manoeuvre vessel to find a direction to minimise spray and the effect of the sun.
- D. Alter course to port and continue at speed.

23. For environmental reasons, where should you avoid driving your boat?

- A. Deep river channels.
- B. Shallow weedy areas which may contain endangered seagrasses.
- C. Boundaries between murky and clear water.
- D. Bar crossings.

24. A good way to minimise the impact of vessel waste on the environment is by:

- A. Minimising soap and detergent use onboard.
- B. Keeping your bilges clean to prevent pollutants being discharged overboard.
- C. Wiping cooking utensils and plates clean with a paper towel before washing up.
- D. All of the above.

25. What is the safest way to move about in small craft?

- A. Crouch down and keep to the centre of the vessel.
- B. Crouch down and keep to the right of the vessel.
- C. Stand up and keep to the centre of the vessel.
- D. Stand up and keep to the left of the vessel.

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Safety Partners



26. When returning over a coastal bar or travelling with a large 'following sea' offshore, the SAFEST option is to:

- A. Maintain a position behind the wave, but not too close.
- B. Maintain a position just in front of the wave.
- C. Proceed at speed through the waves.
- D. Maintain a position on top of a wave.

27. What do cardinal marks indicate?

- A. Special features such as underwater pipes.
- B. Deeper water in a compass direction away from danger.
- C. Specific dangers such as wrecks.
- D. Large shipping channels.

28. The maximum speed a young adult licence holder can drive a powerboat during daylight hours is:

- A. 15 knots.
- B. 20 knots when accompanied by a general licence holder.
- C. 20 knots if not towing a water skier.
- D. 40 knots.

29. Where should you drive a vessel in a channel?

- A. On the port (left-hand) side.
- B. In the middle of the channel.
- C. On the starboard (right-hand) side.
- D. On any side – it does not matter as long as a collision does not occur.

30. You have an emergency onboard your vessel and you assess that you need flares to signal for assistance. When would you ignite the flares?

- A. As soon as you realise you need assistance.
- B. Every hour.
- C. When you see an aircraft, or when people on shore or in other boats are in visual range.
- D. Between sunset and sunrise.

31. You see a blue and white swallow tail alfa flag displayed on a vessel. This means:

- A. There are divers in the vicinity so slow down, observe distance off requirements and keep a good lookout.
- B. There are explosives in the vicinity so slow down, observe distance off requirements and keep a good lookout.
- C. The vessel is having difficulty manoeuvring so slow down, observe distance off requirements and keep a good lookout.
- D. None of the above.

32. When going out for a trip you should always:

- A. Log on and log off with a Marine Rescue NSW radio base.
- B. Tell someone responsible where you are going and when you intend to return.
- C. Call a Marine Rescue NSW radio base for a free radio check.
- D. All of the above.

ANSWERS

1. B. 2. A. 3. B. 4. A. 5. C. 6. C. 7. A. 8. C. 9. C. 10. D. 11. D. 12. A. 13. C. 14. C. 15. D. 16. D. 17. B. 18. C. 19. B. 20. C. 21. D. 22. A. 23. B. 24. D. 25. A. 26. A. 27. B. 28. B. 29. C. 30. C. 31. A. 32. D.

This quiz is a guide only and does not reflect the actual Licence Test.

CONTACT DETAILS

NSW Maritime Office Contact Details

For all general enquiries please phone
infoline on 13 12 56.

Bookings essential for Licence Tests

Sydney Region

ROZELLE HEAD OFFICE

JAMES CRAIG ROAD, ROZELLE NSW 2039

TELEPHONE: (02) 9563 8511

FAX: (02) 9563 8522

INFO LINE: (02) 9563 8425

8:30–4:30 MON – FRI

LOCKED BAG 5100

CAMPERDOWN NSW 1450

KENT STREET

FOYER, 207 KENT STREET, SYDNEY NSW 2000

TELEPHONE: (02) 9241 6307

FAX : (02) 9241 3663

8:30–4:30 MON – FRI

LOCKED BAG 5100

CAMPERDOWN NSW 1450

LIVERPOOL

3/50 MACQUARIE STREET

LIVERPOOL NSW 2170

TELEPHONE: (02) 9601 2060

FAX: (02) 9601 2720

8:30–4:30 MON – FRI

PO BOX 3138

LIVERPOOL WESTFIELD NSW 2170

SUTHERLAND

UNIT 44, 61–65 GLENCOE STREET

(ACCESS VIA STAPLETON AVE),

SUTHERLAND NSW 2232

TELEPHONE: (02) 9545 4422

FAX: (02) 9545 3648

8:30–4:30 MON – FRI

8:30–12:00 FIRST SAT EACH MONTH

PO BOX 456, SUTHERLAND NSW 1499

Hawkesbury River/ Broken Bay

HORNSBY

4 BRIDGE ROAD, HORNSBY NSW 2077

TELEPHONE: (02) 9477 6600

FAX: (02) 9477 3418

8:30–4:30 MON – FRI

PO BOX 797, HORNSBY NSW 1630

BLACKTOWN

UNIT B1, BLACKTOWN MEGA CENTRE

CNR BLACKTOWN RD & ST MARTINS CRS

BLACKTOWN NSW 2148

Located within RTA office

TELEPHONE: (02) 9831 7200

FAX: (02) 9831 7074

8:30–5:00 MON – FRI

8:30–12:00 SAT

BAYVIEW

THE QUAYS MARINA

1856 PITTWATER ROAD, BAYVIEW NSW 2104

TELEPHONE: (02) 9979 8055

FAX: (02) 9997 6628

8:30–4:00 FRI

8:30–4:00 SAT (OCT – APR/Easter Sat)

8:30–12:30 SAT (APRIL – SEP)

12:30–1:00 CLOSED AT LUNCH

PO BOX 797, HORNSBY NSW 1630

GOSFORD

131 DONNISON STREET

GOSFORD NSW 2250

TELEPHONE: (02) 4323 7171

FAX: (02) 4323 7174

8:30–4:30 MON – FRI

PO BOX 1417, GOSFORD NSW 2250

CONTACT DETAILS

North Coast

COFFS HARBOUR

Lot 2, 16 ISLES DRIVE
COFFS HARBOUR SOUTH NSW 2450
TELEPHONE: (02) 6691 9555
FAX: (02) 6691 9599
8:30–4:30 MON – FRI
PO BOX 4259
COFFS HARBOUR JETTY NSW 2450

BALLINA

SUITE 3, 118 TAMAR STREET, BALLINA NSW 2478
TELEPHONE: (02) 6618 5111
FAX: (02) 6618 5199
8:30–4:30 MON, THUR, FRI
12:30–1:30 CLOSED AT LUNCH
PO BOX 426, BALLINA NSW 2478

PORT MACQUARIE

SHOP 1, CNR URALLA AND MERRIGAL ROADS
PORT MACQUARIE NSW 2444
TELEPHONE: (02) 6580 9444
FAX: (02) 6580 9499
8:30–4:30 MON – FRI
12:30–1:30 CLOSED AT LUNCH
8:30–12:30 SECOND SAT EACH MONTH
PO BOX 116, PORT MACQUARIE NSW 2444

SOUTH WEST ROCKS

SHOP 2, 4 LANDSBOROUGH STREET
SOUTH WEST ROCKS NSW 2431
TELEPHONE: (02) 6565 9888
FAX: (02) 6565 9899
8:30–4:30 MON, THUR, FRI
12:30–1:30 CLOSED AT LUNCH
PO BOX 156, SOUTH WEST ROCKS NSW 2431

TAREE

LANDS AND PROPERTY MANAGEMENT
AUTHORITY
98 VICTORIA STREET TAREE NSW 2430
TELEPHONE: (02) 6580 9444
FAX: (02) 6580 9499
8:30–12:00 FIRST SAT OF MONTH

TWEED HEADS

20 RIVER TERRACE
TWEED HEADS NSW 2485
TELEPHONE: (07) 5587 5222
FAX: (07) 5587 5299
8:30–4:30 MON, THUR, FRI
12:30–1:30 CLOSED AT LUNCH
PO BOX 485, TWEED HEADS NSW 2485

YAMBA

SUITE 5, 19-21 COLDSTREAM STREET
YAMBA NSW 2464
TELEPHONE: (02) 6603 0777
FAX: (02) 6603 0799
8:30–4:30 MON, THUR, FRI
12:30–1:30 CLOSED AT LUNCH
PO BOX 143, YAMBA NSW 2464

Hunter/Inland

NEWCASTLE

8 COWPER STREET SOUTH
CARRINGTON NSW 2294
TELEPHONE: (02) 4962 8500
FAX: (02) 4962 8528
8:30–4:30 MON – FRI
PO BOX 653, NEWCASTLE NSW 2300

DUBBO

260 MACQUARIE STREET, DUBBO NSW 2830
TELEPHONE: (02) 6884 5355
FAX: (02) 6881 6294
8:30–5:00 MON, THUR, FRI
12:30–1:30 CLOSED AT LUNCH
PO BOX 890, DUBBO NSW 2830

FORSTER

1/16 LITTLE STREET, FORSTER NSW 2428
TELEPHONE: (02) 6554 6004
FAX: (02) 6555 6114
8:30–4:30 MON – FRI
12:30–1:30 CLOSED AT LUNCH
PO BOX 303, FORSTER NSW 2428

PORT STEPHENS

12 TERAMBY ROAD, NELSON BAY NSW 2315
TELEPHONE: (02) 4984 2133
FAX: (02) 4984 2401
8:30–4:30 MON – FRI
12:30–1:30 CLOSED AT LUNCH
PO BOX 62, NELSON BAY NSW 2315

TEA GARDENS

MARINE DRIVE, TEA GARDENS NSW 2324
TELEPHONE: (02) 4997 1836
FAX: (02) 4997 1852
9:00–12:00 FRI
PO BOX 62, NELSON BAY NSW 2315

TAMWORTH

15 KABLE AVENUE, TAMWORTH NSW 2340
TELEPHONE: (02) 6766 9839
FAX: (02) 6766 4324
8:30–4:30 MON, THUR, FRI
12:30–1:30 CLOSED AT LUNCH
PO BOX 1480, TAMWORTH NSW 2340

South Coast

PORT KEMBLA

91 FORESHORE ROAD
PORT KEMBLA NSW 2505
TELEPHONE: (02) 4274 7914
FAX: (02) 4274 8017
8:30–4:30 MON – FRI
PO BOX 1441, WOLLONGONG NSW 2500

BATEMANS BAY

3/12-14 CRANBROOK ROAD
BATEMANS BAY NSW 2536
TELEPHONE: (02) 4472 1287
FAX: (02) 4472 1562
8:30–4:30 MON, THUR, FRI
12:30–1:30 CLOSED AT LUNCH
PO BOX 917, BATEMANS BAY NSW 2536

EDEN

MAIN WHARF, SNUG COVE, EDEN NSW 2551
TELEPHONE: (02) 6496 4600
FAX: (02) 6496 4611
8:30–4:30 MON & FRI (NOV – MAY)
8:30–4:30 FRI (MAY – NOV)
12:30–1:30 CLOSED AT LUNCH
PO BOX 229, EDEN NSW 2551

NAROOMA

CNR BURRAWANG & GRAHAM STREETS,
NAROOMA NSW 2546
TELEPHONE: (02) 4476 2364
FAX: (02) 4476 4502
8:30–4:30 THUR
12:30–1:30 CLOSED AT LUNCH
PO BOX 175, NAROOMA NSW 2546

SOUTH NOWRA

1/17 BELLEVUE STREET
SOUTH NOWRA NSW 2541
TELEPHONE: (02) 4421 0080
FAX: (02) 4421 0382
8:30–4:30 MON, TUE, THUR, FRI (NOV – APR)
8:30–4:30 MON, THUR, FRI (MAY – OCT)
12:30–1:30 CLOSED AT LUNCH

QUEANBEYAN

2/56 BAYLDON ROAD
QUEANBEYAN NSW 2620
TELEPHONE: (02) 6297 4624
FAX: (02) 6299 0653
8:30–4:30 MON, TUES, THUR, FRI (NOV – APR)
8:30–4:30 MON, THUR, FRI (MAY – OCT)
12:30–1:30 CLOSED AT LUNCH
PO BOX 1310, QUEANBEYAN NSW 2620

CONTACT DETAILS

Murray/Inland

ALBURY

LEVEL 2, 429 SWIFT STREET,
ALBURY NSW 2640
TELEPHONE: (02) 6021 7188
FAX: (02) 6041 2668
8:30–4:30 MON – FRI

MILDURA

159A EIGHTH STREET, MILDURA VIC 3500
TELEPHONE: (03) 5023 4610
FAX: (03) 5023 6104
8:30–4:30 THURS & FRI (NOV – APR)
8:30–4:30 FRI MAY – OCT
12:30–1:30 CLOSED AT LUNCH

MOAMA

4/23 NEIL STREET, MOAMA NSW 2731
TELEPHONE: (03) 5482 1300
FAX: (03) 5482 6303
8:30–4:30 THUR & FRI (NOV – APR)
8:30–4:30 FRI (MAY – OCT)
12:30–1:30 CLOSED AT LUNCH
PO BOX 59, MOAMA NSW 2731

WAGGA WAGGA

RTA BUILDING
2 FOX STREET, WAGGA WAGGA NSW 2650
TELEPHONE: (02) 6931 0533
FAX: (02) 6931 0544
8:30–4:30 MON, WED, THURS & FRI (NOV – APR)
8:30–4:30 MON, THURS & FRI (MAY – OCT)
PO BOX 532, WAGGA WAGGA NSW 2650



Oil Spills

For oil spills for inland waters:

NSW Fire Brigade Phone: **000**

For marine oil spills:

Northern Region – From Queensland border to Catherine Hill Bay. Contact Newcastle Port Corporation (24 hours) Phone: **02 4985 8222**

Sydney Region – From Catherine Hill Bay to Garie Beach. Contact Sydney Ports Corporation (24 hours) Phone: **02 9296 4000**

Southern Region – From Garie Beach to Victorian border. Contact Port Kembla Port Corporation (24 hours) Phone: **02 4274 4571**

Australian Maritime Safety Authority (AMSA)

Phone: **02 6279 5000** – Head Office

1800 641 792 – Maritime Search & Rescue & Environment (24 hour)



CONTACT DETAILS

Enquiries

NSW Maritime Info Line 13 12 56

8.30am–4.30pm, 7 days a week

Licence applications; Registration transfers; Change of address; Environmental complaints; Incident reports and Boatcode.

NSW Phone: **13 12 56**

Areas not covered by NSW telephone exchange:
(02) 9563 8557

If calling after hours, feedback and complaints can be recorded by leaving a message, including your name and contact details, after the tone.

Contact Us

Head Office

James Craig Road, Rozelle Bay NSW 2039
Locked Bag 5100 Camperdown NSW 1450
Ph: **02 9563 8511**

Fax 02 9563 8522

Opening Times: Mon – Fri, 8.30am–4.30pm.

Email Us

For information requests; suggestions or comments on our website, please email enquiries@maritime.nsw.gov.au

Phone Payments (24 hours)

Licences; Registrations; Moorings

NSW Phone: **13 12 36**

Areas not covered by NSW telephone exchange:
(02) 9563 8556

Weather Information

NSW Phone: **13 12 36**

Emergency Contact Numbers

Environment complaints or questions

Call Environmental Services on **02 9563 8591**
or **02 9563 8592**.

For life threatening emergencies call **000**.

NSW Fisheries – Sydney

Phone: **02 9527 8411**

Illegal fishing activity should be reported to your local fisheries office. If they are not available, phone 24 hour fisherman's watch.

Phone: **1800 043 536**

Sydney Ferries

Phone: **131 500**

Sydney Water

Service difficulties and emergencies (24 hours)

Phone: **132 090**

Water Police

Operation Neptune is a 24hr tollfree number.

Marine crime and information can be reported (anonymously if requested).

Phone: **1800 658 784**

Marine Rescue NSW

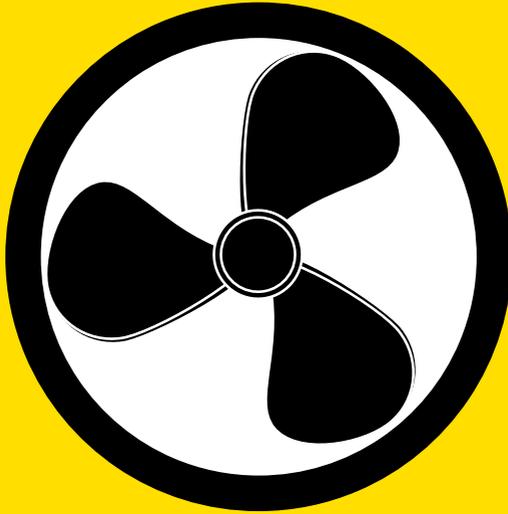
Headquarters

Phone: **02 8071 4848**

Mon to Fri, 8.00am-5.00pm

For contact details of local units,
visit www.marinerescuensw.com.au

TAKE CARE BE PROP AWARE



TAKE CARE BE PROP AWARE

Boat propellers pose a risk that is easily ignored because they are under the water, 'out of sight and out of mind'. So always watch the prop and remember:

- Ensure the prop area is all clear before starting the engine
- Keep a proper lookout, especially when near swimmers
- Stay out of designated swimming areas
- Observe 'distance off' rules
- Keep all arms and legs inside the boat
- Wear a kill-switch lanyard when boating alone.

For more information see our [website](#) or call the Info line.

**YOU'RE THE SKIPPER
YOU'RE RESPONSIBLE!**

DON'T EXPIRE

SET A REMINDER
FOR THE EXPIRY
DATES ON:

Inflatable Lifejackets
Flares | EPIRBs

DON'T EXPIRE

Certain items of safety equipment have an expiry date. Ensure your flares, EPIRB and inflatable lifejackets don't expire. Remember:

- Put the dates in your diary
 - Put the dates in your mobile phone
 - Note the dates on an 'Don't Expire' sticker available from NSW Maritime
 - Set up a Maritime 'expiry' Alert by logging online at www.maritime.nsw.gov.au
- For more information see our [website](#) or call the [Info line](#).

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YOU'RE RESPONSIBLE!**