

based authorities using a marine radio or mobile phone.

Orange smoke flares can be seen in clear conditions at sea level from a distance of up to four kilometres and even further from an aircraft. Red hand flares can be seen at sea level at a distance of up to 10 kilometres.

Always read the instructions and familiarise yourself with them before storing your flares on board. Store the flares in a dry place where they will be readily accessible in an emergency.

Remember – Flares have a lifespan of three years and must be replaced prior to the expiry date. Obtain a “Don’t Expire” sticker from Maritime Safety Queensland as a reminder to replace your flares.

Signalling devices

Signalling devices are compulsory for all boats operating between sunset and sunrise. A torch, fluorescent light, lantern or cyalume stick are all suitable as long as they generate enough light to be seen by other boats and prevent a collision and attract attention.



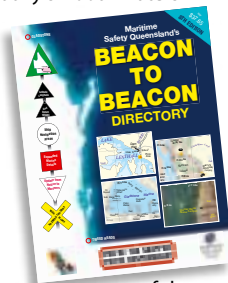
Fire fighting equipment

Fire fighting equipment is required to be carried by all registered vessels over five metres in length. For tender requirements please see page 30. The most efficient piece of fire fighting equipment is a fire extinguisher, however it must be capable of extinguishing a fire quickly and effectively. Remember, fire extinguishers must be serviced at specified intervals.



Navigation equipment

All boats operating in partially smooth waters and beyond should carry some form of navigation equipment for example, charts or Beacon to Beacon, compass or GPS. The Beacon to Beacon Directory is recommended for all boats operating in applicable areas.



You can purchase a copy of the latest Beacon to Beacon Directory, and other

publications such as Tide Tables and charts, from the Maritime Safety Queensland website.

Other equipment

Pumping and bailing

It is recommended that all boats carry suitable bailing equipment. For boats under five metres, buckets are considered suitable bailing equipment. Boats five metres and over require a bilge pump (See safety equipment table on page 28 for more details).

Anchoring

It is recommended that all boats carry a suitable anchor with a minimum of two metres of chain and a length of line suitable for the depth of water (See safety equipment table on page 28 for more details).

Manual propulsion

Boats under six metres in length should carry oars or paddles in case of emergency. If the boat has fittings for rowlocks, carry the correct length oars with rowlocks securely attached. If not, the paddles should be long and of sufficient strength to do the job.



Drinking water

All boats should carry sufficient drinking water for everyone on board for the duration of the trip.



Expired flare disposal bin locations

Gold Coast area	Location
Maritime Safety Queensland Gold Coast regional office	40-44 Sea World Drive, Main Beach
Brisbane area	Location
Volunteer Marine Rescue Jacobs Well	Council Reserve, Jacobs Well/Pimpama Road, Jacobs Well
Volunteer Marine Rescue Raby Bay	William Street, Cleveland
Coast Guard Brisbane (Manly)	Manly Boat Harbour, Trafalgar Street, Manly
Coast Guard Redcliffe	Scarborough Harbour, 2 Thurecht Parade, Scarborough
Maritime Safety Queensland regional office	MacArthur Avenue East, Pinkenba
Wynnum Water Police	60 Hamilton Street, Redland Bay
Sunshine Coast area	Location
Volunteer Marine Rescue Bribie Island	Marine Parade, off Sylvan Beach Esplanade, Bellara
Coast Guard Caloundra	Tripcony Park, off Maloja Avenue, Caloundra
Coast Guard Mooloolaba	65 Parkyn Parade, Mooloolaba
Coast Guard Noosa	Munna Point, via Caravan Park, Russell Street, Noosaville
Coast Guard Tin Can Bay	Norman Point, Tin Can Bay
Queensland Boating and Fisheries Patrol	Parkyn Parade, Mooloolaba
Queensland Boating and Fisheries Patrol	Russell Street, Noosaville
Central coast area	Location
Volunteer Marine Rescue Gladstone	Goondoon Street, Gladstone
Volunteer Marine Rescue Mackay	Mackay Harbour, Mackay
Maritime Safety Queensland Hervey Bay regional office	Buccaneer Avenue, Hervey Bay
Queensland Boating and Fisheries Patrol Yeppoon	John Howes Drive, Rosslyn Bay
Coast Guard Thirsty Sound	1 Banksia Road, Stange
Queensland Boating and Fisheries Patrol Gladstone	Alf O'Rourke Drive, Gladstone Marina, Gladstone
Gladstone Water Police	Tenant 1, Marina Complex, Bryan Jordan Drive, Gladstone
Northern area	Location
Coast Guard Ingham	Patterson Parade, Lucinda
Coast Guard Innisfail	Mourilyan Harbour, Mourilyan
Coast Guard Cairns	Trinity Wharf, Cairns
Coast Guard Port Douglas	36 Wharf Street, Port Douglas
Volunteer Marine Rescue Weipa	2 Tonkin Drive, Weipa
Maritime Safety Queensland Townsville regional office	60 Ross Street, South Townsville
Maritime Safety Queensland Cairns regional office	100-106 Tingira Street, Portsmith
Queensland Boating and Fisheries Patrol Townsville	60 Ross Street, South Townsville
Queensland Boating and Fisheries Patrol Ingham	7 Haigh Street, Ingham
Queensland Boating and Fisheries Patrol Bowen	1st floor, 6 Herbert Street (Dalrymple Street entrance), Bowen
Queensland Boating and Fisheries Patrol Thursday Island	38 Victoria Parade, Thursday Island
Queensland Boating and Fisheries Patrol Port Douglas	Ashford Avenue, Port Douglas
Townsville Water Police	55 Sixth Street, South Townsville

Safety equipment for recreational boats and personal watercraft (PWC)

All equipment must be in good working order, and not past the expiry date for replacement or service (EPIRB, fire extinguisher, flares and inflatable life jackets).

- Boats not requiring registration means recreational boats with an engine or auxiliary under 3kW (4hp). Requirements or recommendations listed also apply to international or interstate boats operating in Queensland.
- Boats requiring registration means recreational boats with an engine or auxiliary of 3kW or more (over 4hp). Requirements or recommendations listed also apply to international or interstate boats operating in Queensland.
- Tenders do not require registration if operated within 2 nm of the primary boat. Tenders that do not require registration are not required to carry safety equipment other than a light for signalling. Operators should consider equipping a tender with safety equipment appropriate to the location of operation.
- PWC means personal watercraft for example a jet ski.
- Required means equipment that must be carried. Recommended means equipment that is suggested to be carried to meet the general safety obligation.

Item	Smooth water			Partially smooth waters			Beyond smooth and partially smooth waters		
	Not requiring registration	Registered*	PWC	Not requiring registration	Registered*	PWC	Not requiring registration	Registered*	PWC
EPIRB* (406 MHz) Emergency Position Indicating Radio Beacon. When operating more than 2nm from land. Must be registered with AMSA. Registration must be renewed every two years.							required	required	required
EPIRBs must have a printed expiry date and be replaced or serviced by the manufacturer (or authorised service agent) by this date; must comply with Australian Standard AS/NZ 4280.1:2003; and must be registered in the name of the owner/master with the Australian Maritime Safety Authority.									
Signalling device for example a torch, or fluorescent light, or lantern or cyalume stick. Required when operating between sunset and sunrise.	required	required	required	required	required	required	required	required	required
PFDs/life jackets • One of the appropriate size for each person (12 months and over) on board, except if a person is wearing an inflatable diver jacket and the vessel is engaged in diving activities. • Children under 12 must wear the PFD when underway in an open boat under 4.8m. • Skiers or people being towed - PFD type 2, 3 or wetsuit with inbuilt flotation approved as PFD type 3 in smooth waters - PFD type 2 in partially smooth waters	PFD type 1,2 or 3 recommended	PFD type 1,2 or 3 required	PFD type 2 or 3 required	PFD type 1 or 2 recommended	PFD type 1 or 2 required	PFD type 2 required	PFD type 1 recommended	PFD type 1 required	PFD type 2 required
-Except in a river, creek or stream, or waters contained within breakwaters or revetments if the boat has positive flotation**, and grab handles, lines or a secure hold for each person onboard. *PFD not required for a registered* tender to a recreational boat if used within 1km of the primary boat and tender has a positive flotation statement** in the approved form. **PFDs must be worn when crossing designated bars in open boats under 4.8m. *PFD not required for a registered* tender to a recreational boat if used within 1km of the primary boat and tender has a positive flotation statement** in the approved form. *PFDs must be worn when crossing designated bars in open boats under 4.8m. *PFD not required for a registered* tender to a recreational boat if used within 500m of the primary boat and tender has a positive flotation statement** in the approved form.									
V sheet				recommended	required		recommended	required	
Flares two red hand flares and two orange smoke flares.				recommended	required		recommended	required	
Fire fighting equipment all boats over 5m. Must be capable of extinguishing a fire quickly and effectively.	recommended	required		recommended	required		recommended	required	
RideSmart sticker must be visible from steering position.			required			required			required

Item	Smooth water			Partially smooth waters			Beyond smooth and partially smooth waters		
	Not requiring registration	Registered*	PWC	Not requiring registration	Registered*	PWC	Not requiring registration	Registered*	PWC
Capacity label except sailing ships. Must be visible from all steering positions.		required	required		required	required		required	required
	Capacity label can be either an Australian Builders Plate or a label issued by Maritime Safety Queensland. Not required for international or interstate boats operating in Queensland.								
Navigation Navigation chart and a liquid damped compass appropriate to the operational area, or other directional finding or positioning equipment.				recommended	recommended		recommended	recommended	
Anchoring For boats less than 5m, the cable can be chain or rope. For boats over 5m, the cable can be chain of at least 2m attached to anchor and rope. Length of chain/rope should be appropriate for the depth of water you are anchoring in.	recommended	recommended		recommended	recommended		recommended	recommended	
	<ul style="list-style-type: none"> • Less than 5m, one anchor with 18m cable • 5-8m, one anchor with 27m cable • over 8m, two anchors with 37m cable each 			<ul style="list-style-type: none"> • Less than 5m, one anchor with 27m cable • 5-8m, one anchor with 27m cable • over 8m, two anchors with 37m cable each 			<ul style="list-style-type: none"> • Less than 5m, one anchor with 27m cable • 5-8m, one anchor with 27m cable • over 8m, two anchors with 37m cable each 		
Pumping/bailing equipment	recommended	recommended		recommended	recommended		recommended	recommended	
	<ul style="list-style-type: none"> • Under 5m: suitable bailing equipment • 5-8m: bilge pump 45L/minute capacity • over 8m: bilge pump 70L/minute capacity 			<ul style="list-style-type: none"> • Under 5m: suitable bailing equipment • 5-8m: bilge pump 45L/minute capacity • over 8m: bilge pump 70L/minute capacity 			<ul style="list-style-type: none"> • Under 5m: suitable bailing equipment • 5-8m: bilge pump 45L/minute capacity • over 8m: bilge pump 70L/minute capacity 		
Manual propulsion oars or paddles (boats under 6m)	recommended	recommended		recommended	recommended		recommended	recommended	
Drinking water enough for everyone onboard for the trip	recommended	recommended		recommended	recommended		recommended	recommended	

* Also includes boats/tenders that are required to be registered but are not.

** A positive flotation statement is a certificate, in the approved form, from a manufacturer or an accredited marine surveyor. It is not required to be carried on board, but an enforcement agency may ask the owner to provide proof of its existence.

This table is current at time of printing.
Changes are being introduced in 2012 to improve boating safety.
Check the Maritime Safety Queensland website at www.msq.qld.gov.au for the most up-to-date information.



DANFORTH ANCHOR
Most commonly used by small craft as it has excellent holding power in mud and sand

QCR OR PLOUGH ANCHOR
Used by larger, heavier boats



REEF ANCHOR
Designed for coral or rock by using prongs that can straighten out, creating less environmental impact



SEA ANCHOR – A small drogue acting like a parachute, dramatically slows the rate of drift.

Safety equipment for tenders

See the below tables for information on registration and safety equipment requirements for tenders. In certain cases, tenders are subject to exemption from registration. There can also be some variances on the types of safety equipment that a tender is required to carry onboard. Please note: Skippers are expected to consider carrying the recommended safety equipment outlined in the table below under their general safety obligation.

Registration requirements for 6 metre or less recreational tenders		
Engine Power	Operating radius from parent ship	Must be registered
less than 3Kw	any distance	no
3Kw or more	less than 2nm* (3.7km)	no
	2nm* (3.7km) or more	yes

*A tender to a registered recreational boat must be appropriately marked. The tender must be marked with the word 'tender' as well as the primary boat's registration numbers (at least 75mm high) on the exterior of the tender, if this is not possible, marked on the inside of the tender in the largest characters possible. The tender may be marked with the owner's name or business, if it is used for more than one of the owner's boats.

Safety and miscellaneous equipment for tenders to registered recreational ships						
Item	Smooth waters		Partially smooth waters		Beyond partially smooth waters	
	Registered*	Not requiring registration	Registered*	Not requiring registration	Registered*	Not requiring registration
Personal flotation device (PFD)/life jacket for each person on board	required	recommended	required	recommended	required	recommended
	PFD type 1, 2 or 3	PFD type 1, 2 or 3**	PFD type 1 or 2	PFD type 1 or 2**	PFD type 1	PFD type 1**
PFD/life jacket not required	<ul style="list-style-type: none"> operating within 1 kilometre of the primary ship and there is a positive flotation statement in the approved form for the tender operates in a river, creek, stream, or the waters contained within breakwaters or revetments and is equipped with grab lines, grab rails or other permanent means of giving each person onboard a way of keeping a secure hold to the tender and there is a positive flotation statement in the approved form for the tender. 		<ul style="list-style-type: none"> operating within 1 kilometre of the primary ship and there is a positive flotation statement in the approved form for the tender. 		<ul style="list-style-type: none"> operating within 500 metres of the primary ship and there is a positive flotation statement in the approved form for the tender. 	
	<p>Note: A positive flotation statement is a certificate, in the approved form, from a manufacturer or an accredited marine surveyor. It is not required to be carried on board, but an enforcement agency may ask the owner to provide proof of its existence.</p>					
Signalling device Operating between sunset and sunrise	required	required	required	required	required	required
	Lighting device for signalling to attract attention at night (for example, a torch, or lantern or fluorescent light or cyalume stick). Tenders operating between sunset and sunrise must be equipped with navigation lights.					
V sheet			required	recommended	required	recommended
Flares two red hand flares and two orange smoke flares			required	recommended	required	recommended
Fire fighting equipment	required	recommended	required	recommended	required	recommended
	A registered* tender, more than 5 metres in length must be equipped with firefighting equipment capable of extinguishing a fire quickly and effectively. It is recommended that non-registrable tenders, more than 5 metres in length should also be equipped with firefighting equipment.					

Safety and miscellaneous equipment for tenders to registered recreational ships

Item	Smooth waters		Partially smooth waters		Beyond partially smooth waters	
	Registered*	Not requiring registration	Registered*	Not requiring registration	Registered*	Not requiring registration
EPIRB (406 MHz)					required	required
	Required when operating beyond partially smooth waters and more than 2nm (3.7 km) from land (that is, a part of the earth's surface (other than a reef) above the ordinary high-water mark at spring tides).					
Navigation			recommended	recommended	recommended	recommended
	A liquid damped compass and a navigation chart appropriate to the operational area.					
Anchoring	recommended	recommended	recommended	recommended	recommended	recommended
	-less than 5m — one anchor with at least 18m of cable -5m to 6m — an anchor with at least 27m of cable		-less than 5m — one anchor with at least 27m of cable -5m to 6m — an anchor with at least 27m of cable		-less than 5m — one anchor with at least 27m of cable -5m to 6m — an anchor with at least 27m of cable	
	-for a tender less than 5m, the cable can be a chain or rope -for a tender 5m or more, the cable can be a chain or a chain of at least 2m attached to the anchor and a rope The type and weight of anchor and length and thickness of the cable should be appropriate for the type and weight of ship, the weather and sea conditions and the nature of the seabed.					
Pumping/bailing equipment	recommended	recommended	recommended	recommended	recommended	recommended
	-less than 5m — bailing equipment appropriate for the type of ship -5m to 6m — a pump or other bailing equipment with a minimum capacity of 45L per minute is recommended					
Manual propulsion	recommended	recommended	recommended	recommended	recommended	recommended
	A tender less than 6m should be equipped with a way of manually propelling the ship, for example oars or paddles.					
Drinking water	recommended	recommended	recommended	recommended	recommended	recommended
	Enough drinking water for everyone on board for the duration of the intended voyage.					
Capacity Label	required		required		required	
	A capacity label must be permanently attached to the registrable tender in a place that is adjacent to each steering position in the tender and allows the capacity label to be seen clearly from the steering position.					

Note: *Also includes tenders that are required to be registered but are not.

* *In circumstances where Queensland marine safety legislation does not prescribe the safety equipment for a vessel, owners and operators of these vessels are reminded of their general safety obligation under legislation to operate their vessels safely. The Transport Operations (Marine Safety-Recreational Ships Miscellaneous Equipment) Standard 2006 provides vessel owners and operators with guidance to assist them with the discharge of this obligation.

