

- 11 For a complete First Aid equipment list, contact the Department, (contact numbers can be found on the front of this Pamphlet).
- 12 Navigation lights will be tested at survey. Anchor and Masthead lights are to be individually switched.
- 13 The compass is to be adjusted every 3 years and the deviation card displayed adjacent to the steering position.
- 14 If LPG is fitted a gas detector is required if it is possible for the gas to leak below deck or accumulate in the vessel.
- 15 Vessels shall be fitted with a minimum of a VHF radio installation and are limited to within 20NM radius of Fremantle, or an approved 24-hour manned coastal radio station. VHF frequencies for weather information vary – see the Bureau of Meteorology ([www.bom.gov.au/marine](http://www.bom.gov.au/marine)). A call sign and tuning card for these frequencies shall be displayed next to the radio. The operator's certificate is to be produced at the time of survey, and a test call will be made.
- 17 An approved EPIRB for waters class D and above (121.5/243 or 406 MHz) shall be carried, mounted in the wheelhouse or liferaft. The Fire pump(s) will be tested with the fire hose and nozzle fitted, (deck hoses are only acceptable if nozzle is readily attachable in an emergency.)
- 18 Fixed fire fighting installation is to be serviced annually and a copy of the service document provided. Fixed fire fighting systems are to have an alarm fitted that is audible from the helm whilst underway. Detectors that are fitted in lieu of structural fire protection in accommodation, control and high risk spaces are to meet the same requirements as, and can be incorporated in, the detection system fitted for the propulsion machinery space.
- 19 CO<sub>2</sub> systems to be fitted with an isolation valve (AS 4214).  
 Minimum size of foam fire extinguisher is 9 litre,  
 Minimum size of dry powder extinguisher is 4.5kg,  
 Minimum size of CO<sub>2</sub> extinguisher is 3kg.
- 20 One of these torches may be the vessel's signalling light (refer note 9).  
 Starting batteries on new or modified vessels shall be fitted as high as practicable, above the deepest loaded waterline.

**All portable extinguishers must be serviced annually.**

**AT EACH PERIODICAL SURVEY OF THE VESSEL, THE SURVEYOR MAY ALSO INSPECT THE FOLLOWING:  
 (MANY SMALL VESSELS WILL NOT HAVE ALL OF THE FOLLOWING ITEMS).**

- 21 Main and auxiliary machinery, controls and instruments: engines will be tested whenever practical.
- 22 Cooling system, exhaust system and fuel system (exhausts shall be lagged).
- 23 Steering systems, emergency steering, (recommended but not mandatory on twin-screw vessels).
- 24 LPG installation, (LPG audible alarm and solenoid cut-off to be functional). Pressure vessels. Electrical installation, (Note: Residual Current Device's (RCD's) required on systems exceeding 32 volts)
- 25 Pipe work, (sea water rubber hoses must be double-clipped each end). Approved rubber hose to be used eg "Dunlop Diamond 404".
- 26 Machinery guards on all rotating machinery.
- 27 Cargo/fishing gear, including winches, cranes, deck machinery etc.
- 28 Alarm systems. (**All vessels** require a machinery space bilge alarm, **audible at helm**).
- 29 A bilge alarm is required in all compartments where sea water pumping systems are fitted.
- 30 **The bilge alarm must not operate off the same float switch that operates the electric bilge pump.**
- 31 Bilge system. Pumps will be tested whenever practical.
- 32 Emergency shut-offs on fuel valves, engine room fans etc, vent closures.  
 Watertight integrity - doors, hatches, closing devices, windows, ventilators, etc.  
 Guardrails, freeing ports, emergency escapes.



**EQUIPMENT LIST &  
 SURVEY REQUIREMENTS FOR  
 CLASS 1D VESSELS**

**Less than 25 Metres in Length  
 and Under 500 tons GRT**

**DATE OF ISSUE: DEC 2004**

**IMPORTANT**

This leaflet has been designed to assist a vessel owner in preparing a vessel for periodical survey in accordance with the Western Australian Marine Act.

This leaflet is not intended to cover every aspect of survey, and compliance with this leaflet does not necessarily constitute compliance with all relevant statutes.

For further information, please contact the **COMMERCIAL VESSEL SAFETY BRANCH** at:.

1 ESSEX ST, FREMANTLE.  
 P.O. BOX 402, FREMANTLE, W.A. 6959  
 TELEPHONE: (08) 9216 8237  
 FAX: (08) 9216 8978

65 CHAPMAN ROAD, GERALDTON.  
 PO BOX 68, GERALDTON, W.A. 6530  
 TELEPHONE: (08) 9956 0113  
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**CLASS 1D EQUIPMENT CHECK LIST: (To be read with corresponding note numbers below).**

NOTE	SURVEY ITEM	VESSEL LENGTH	REQUIREMENTS
1	BUOYANT APPLIANCES	LESS THAN 25m	Sufficient buoyant appliances and/or lifebuoys to provide a total float off capacity for 100% complement, provided that: a. each lifebuoy is assumed to provide support for two persons, and b. a dinghy may be included in the above appliances,
2	LIFEBUOYS	<i>Note</i> OVER 10m LESS THAN 10m	<i>Additional to any lifebuoys included in 100% buoyancy above,</i> 2 Lifebuoys, one with self-igniting light, one with buoyant line, 1 Lifebuoy, with self-igniting light.
3	LIFEJACKETS	ALL LENGTHS	An approved Coastal Lifejacket with whistle for each person the vessel is certified to carry.
4	PYROTECHNICS	ALL LENGTHS	3 Parachute Rockets, 2 Red hand flares and 1 Orange smoke signal.
5	DINGHY EQUIPMENT	ALL LENGTHS	a. Two oars or paddles, b. one painter, c. one bucket or bailer ,and d. means to enable persons to cling to boat if upturned.
6	SOUND SIGNAL		Horn or portable air/gas horn.
7	MISCELLANEOUS EQUIPMENT	ALL LENGTHS	Clock, Barometer, Hand lead line (A Depth Sounding Device (Echo Sounder) may be used in lieu), Signalling light, Gangway or a safe means of access approved by the Department, Anchors, anchor chain (or rope), anchor winch, Ropes and Lines of sufficient number, length and strength for the size and service of the vessel, First aid kit to Scale G (Unberthed passengers), Scale F (Berthed passengers), Navigation lights and shapes appropriate to vessel's operation, Compass, Gas detector for LPG installations, Approved radio installation and EPIRB, Boat Hook.
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16		LESS THAN 10m	
17	FIRE PUMP EMERGENCY FIRE PUMP	15m TO 25m Over 15 m	1 Fire pump, with hydrants and hoses with nozzles to suit for every hydrant fitted. 1 manually operated fire pump in a position outside compartment containing propelling machinery. (Required if Main Fire Pump is not situated outside compartment containing propelling machinery).
18	FIXED FIRE SYSTEM	12.5m AND OVER	Fitted in propulsion machinery space.
19	FIRE EXTINGUISHERS	<b>Fully Decked</b> 10m TO 25m 20m TO 25m 15m TO 20m LESS THAN 15m <b>Not Fully Decked</b> 15m TO 25m 10m TO 15m LESS THAN 10m	1 for each passenger space and crew space on each deck and one in each galley, 3 suitable for extinguishing oil fires, for use in each propelling machinery spaces, 2 suitable for extinguishing oil fires, for use in each propelling machinery spaces, 1 suitable for extinguishing oil fires, for use in each propelling machinery spaces.  3 suitable for extinguishing oil fires, 2 suitable for extinguishing oil fires, 1 suitable for extinguishing oil fires.
	FIRE BUCKETS	LESS THAN 15m	2 with lanyard.
20	EMERGENCY ELECTRICAL EQUIPMENT	ALL LENGTHS	2 Waterproof Torches.
	<b>21 to 32 - VARIOUS</b>	ALL LENGTHS	ITEMS CHECKED AT PERIODIC SURVEY -

**Refer NOTE 1**

**Refer NOTE 19**

**Refer NOTES 21 to 32 BELOW**

Refer to corresponding notes

**NOTES**

**THESE NOTES REFER TO CORRESPONDING EQUIPMENT NOTE NUMBERS ABOVE**

- Inflatable Liferaft's used as buoyant appliances shall be serviced annually.** Inflatable Liferaft's will be assumed to support twice the number of persons it is certified for when used in designated sheltered waters. Where a vessel is certified to carry more than 50 passengers, Liferaft(s) shall be used, not buoyant appliances. Buoyant appliances shall have a highly visible colour, and shall be identified with vessel's name, fitted with reflective tape 300mm long, 50mm wide and spaced at 500mm centres, on the top and bottom of the appliance and spaced around the perimeter of the appliance. Grab lines shall be fitted around the appliance. The buoyant appliance shall be fitted in an easy access, float free position. Liferaft's are to be fitted with hydrostatic release and weak link, or be float free with a weak link, or be fitted to approved launching device. Vessels of less than 15 metres fitted with approved internal buoyancy in lieu of single compartment subdivision are required to carry the prescribed buoyant appliances for 100% complement.
- Lifebuoys are to be marked with vessel's name and four bands of reflective tape at 90° to each other. The self-igniting light is to be attached to one lifebuoy and a minimum of 27m of buoyant line attached to the other. Lifebuoys must be readily accessible.
- Lifejackets are to be identified with vessel's name, fitted with reflective tape and whistle. Jackets are to be stowed in an easily accessible place for emergency use. **"COASTAL" jackets are minimum requirement for Class D vessels. "SOLAS" jackets may be used.**
- Pyrotechnics shall be renewed by the manufacturer's expiry date marked on each one. Dependant upon area of operation, the Department may permit a reduction in the number of pyrotechnics carried.
- Dinghies shall comply with the requirements of AS 1799 (subject to Appendix N, Section 10 of the Uniform Shipping Laws Code).
- Horn must give a minimum of 110 dB.
- Clock shall be positioned so to be in view of radio installation.
- A Depth Sounding Device (Echo Sounder) may be used in lieu of hand lead line. Hand lead line if used is to consist of at least a 3kg lead and line of at least 46m, correctly marked.
- Signalling light requires a facility for flashing, not just on/off switch. This torch may be one of the 2 torches required for the emergency electrical installation requirements.
- Anchors up to 25kg may be fitted with rope in lieu of chain; but at least 3m of chain must be shackled between rope and anchor, Anchors 25kg to 100kg may be fitted with rope, providing 6m of chain is shackled between rope and anchor, Anchors 100kg and over:- one anchor to have chain shackled to it, the other anchor may be fitted with rope with 9m of chain shackled to it. **A manual anchor winch is required for anchors over 30kg, with a powered anchor winch for anchors over 50kg.**

**CONTINUED OVERLEAF**