



This is a guide to the equipment standards and requirements that apply to class 1E vessels under the National Law.

It consists of two parts:

Part 1 – Safety Equipment – for new, transitional and existing class 1E vessels (NSCV C7A)

Part 2 – Other equipment – only for new class 1E vessels, and transitional class 1E vessels

	Safety Equipment	Other equipment
New	Part 1	Part 2
Transitional	Part 1	Part 2
Existing vessels operating before 1 July 2013	Part 1	The standards that applied to the vessel on 30 June 2013.
Existing vessels not operating before 1 July 2013	Part 1	The standards that applied at the time of design approval.

‘New’, ‘transitional’ and ‘existing’ vessels are defined in section 22 of Marine Order 503.

NOTE: Existing vessels should continue to carry equipment as previously required (apart from safety equipment), and may also choose to carry the “other equipment” in Part 2.

This equipment guide is general in nature and may not apply to your individual circumstances. Factors including the application of Exemption 02 or Exemption 40, and whether the vessel was an existing commercial vessel before 1 July 2013, may mean that different equipment standards apply to your vessel.

Vessel owners should confirm on a case by case basis that they carry the required equipment for the vessels particular circumstances and operations for which they are engaged.

Vessels 500 GT and over surveyed under NSCV must also comply with the requirements in Marine Order 25.

Glossary

nm	nautical miles
NSCV	National Standard for Commercial Vessels
m	measured length in metres
100%	for total complement of vessel (maximum number of passengers and crew permitted)
AIS	Automatic Identification System
All	refers to vessels of any length in that class

ECS	Electronic Chart System
ECDIS	Electronic Chart and Display Information System
GNSS	Global Navigation Satellite System
GT	Gross Tonnage
LCS	Limited Coast Station
MO	Marine Order
PA System	Public Address System

Further Information

For a copy of the National Standard for Commercial Vessels, please visit www.amsa.gov.au or alternatively, contact AMSA on 02 6279 5000 or email: amsaconnect@amsa.gov.au

Part 1 – Safety equipment

FOR NEW, TRANSITIONAL AND EXISTING CLASS 1E VESSELS

Items required	Vessels affected
Buoyant appliances Each lifebuoy assumed to support 2 persons. Open reversible liferafts must be fitted with hydrostatic release, and comply with NSCV Subsection C7A Annex E on replacement.	
Buoyant appliances (or open reversible liferaft/s*) / lifebuoys / or dinghies or combination for 40% complement. Note: Dinghy must comply with NSCV Subsection C7A Annex B.	All (except below)
Buoyant appliances (or open reversible liferaft/s*), lifebuoys or combination of both for 100% complement	Vessels conforming to Flooding Risk Category II as specified in NSCV Subsection C6B, with up to 36 day passengers
Suitable equipment to sustain and recover persons overboard, e.g. heaving line with rescue quito, ladder, rescue sling, scramble net	≥25m
Lifebuoys Type and quantity of lifebuoys listed below is required on existing vessels when lifebuoys are acquired or replaced, or by 1 Jan 2022 whichever comes first. Each lifebuoy assumed to support 2 persons.	
6 minimum: 1 with self-activating light and 1 with buoyant line	≥60m, additional to buoyancy requirements
4 minimum: 1 with self-activating light and 1 with buoyant line	≥45m <60m, additional to buoyancy requirements
2 minimum: 1 with self-activating light and 1 with buoyant line	≥10m <45m, additional to buoyancy requirements
1 minimum with self-activating light	<10m, additional to buoyancy requirements
Lifejackets Type and quantity of lifejackets listed below is required on existing vessels when lifejackets are acquired or replaced, or by 1 Jan 2022 whichever comes first.	
Coastal lifejacket for 100% complement	All
Distress signals	
Until 1 January 2021: 406MHz EPIRB registered with AMSA	>2nm from land must carry a class 2 or class 3 EPIRB
After 1 January 2021: 406MHz EPIRB registered with AMSA (NOTE – this is in addition to any EPIRB carried as part of a liferaft or survival craft.)	≥12 m long and >2nm from land must carry a class 2 EPIRB fitted in a category 1 bracket; <12 m long and >2nm from land must carry a class 2 EPIRB or a class 3 EPIRB
2 Red hand-held flares	All
1 Hand-held orange smoke signals	All

Items required	Vessels affected
Onboard communications and alarm systems	
General emergency alarm system	≥25m
PA system if no direct communications to passengers in emergencies	All
Battery operated torch for each crew member	All
Medical Supplies as per NSCV Subsection C7A Annex H Note: GES 2015/01 may also be applicable to vessels operating in C, D or E waters	
Scale F First Aid Kit	Vessels carrying berthed passengers
Scale G First Aid Kit	Vessels carrying unberthed passengers

* (NOTE: NSCV Subsection C7A, Table 2, (B1) requires a documented risk assessment be conducted to determine whether open reversible liferafts of equivalent aggregate capacity should replace buoyant appliances. From 1/1/2020 liferafts must replace buoyant appliances on these vessels unless the risk assessment shows it is safe to use buoyant appliances and potentially have persons immersed in the water while waiting to be rescued. Examples of hazards to be considered where the mean monthly water temperature is <15 degrees, and waters which are infested with hazardous flora or fauna. Open reversible liferafts must comply with NSCV Subsection C7A Annex E.)

Part 2 – Other equipment

FOR NEW CLASS 1E VESSELS, AND TRANSITIONAL CLASS 1E VESSELS ONLY

Items required	Vessels affected
Emergency electrical installation and equipment	
Self-contained source of electrical power, either a dedicated battery or diesel generator, to provide emergency power to all key systems for 3hrs. (See NSCV Subsection C5B)	<35m
Temporary emergency power battery (See NSCV Subsection C5B)	≥25m – <35m carrying berthed passengers, except where the emergency generator starts and comes on load automatically
Emergency lighting (See NSCV Subsection C5B)	≥25m – <35m
Navigation equipment	
Navigation equipment on vessels >35m must comply with the requirements in MO27	
Clock (may be included in other navigation equipment)	<35m
Pair of binoculars	<35m
Echo sounder	<35m
Signalling light	All
Nautical publications	<35m
ECDIS or ECS or Nautical charts and backup for electronics	≥12m <35m
GNSS	<35m where plotting equipment (ECDIS, ECS, etc.) is fitted
Radar	<12m <35m
Radar reflector	<12m
Speed and distance indicator	<35m
Compass (card 75mm minimum diameter)	<10m
Compass (card 100mm minimum diameter)	<10m <20m
Compass (card 125mm minimum diameter)	≥20m <35m
Communication system to emergency steering	<35m
Navigation lights, day shapes and flags as per the Prevention of Collision at Sea Regulations (MO30)	All
Sound Signal	<12m LOA *
Whistle	≥12m LOA *
Bell (300mm minimum diameter)	≥20m LOA *
Gong	≥100m LOA *

* 'length' for the purposes of the sound signals required by COLREGs is Length Overall not measured length as used in the NSCV and vessels Certificate of Survey.

Items required	Vessels affected
Miscellaneous equipment	
Windlass, anchors and cables (See NSCV Subsection C7D for anchoring requirements)	All
Hawsers and warps	All
Logbook (See MO504)	All
VHF Radio (DSC optional but preferred)	All
Current edition of the “Marine VHF Radio Operators Handbook”	≥7.5m
HF Radio (DSC optional but preferred) or Satellite communication system or Satellite telephone	All vessels operating outside of LCS / VHF coverage areas
Current edition of the “Marine Radio Operators Handbook”	All ≥7.5m vessels operating outside of LCS / VHF coverage areas
Rudder angle indicator	≥15m fitted with power operated steering gear
Collar repair kit and air pump	All Inflatables/RIBs
Bilge pumps (see Table 1)	All
Approved safe means of access (See NSCV Section C1 Clause 6.16 and Table 33)	All

NOTE: For Fire Fighting Equipment complying with the NSCV, please refer to the NSCV Section C4.

Table 1: Bilge pumps

Measured Length of vessel	Manual pumps with discharge capacity		Power pumps with discharge capacity	
	Number	Capacity in kilolitre/hour	Number	Capacity in kilolitre/hour
5m<	Bailing bucket acceptable for open boats provided the bilge is readily accessible			
≥ 5m < 7.5m	1	4.0		
≥ 7.5m < 10m	2	4.0		
≥ 10m <12.5m	1	5.5	1	5.5
≥ 12.5m < 17.5m	1	5.5	1	11.0
≥ 17.5m < 20m	1	8.0	1	11.0
≥ 20m < 25m	-	-	2	11.0
≥ 25m < 35m	-	-	2	15.0