



## 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 and EPIRBs – (NSCV C7A and C7B sections relating to EPIRBs)

Part 2 – Other equipment – (NSCV C1, C4, C5B, C7B, C7C and C7D)

Vessel type	Safety equipment & EPIRBs	Other equipment
<b>New</b>	Part 1	Part 2
<b>Transitional</b>	Part 1	Part 2
<b>Existing</b> vessels operating before 1 July 2013	Part 1	The standards that applied to the vessel on 30 June 2013.
<b>Existing</b> vessels <b>not</b> 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

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

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

### Further Information

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

## Part 1 – Safety equipment and EPIRBs

### FOR NEW, TRANSITIONAL AND EXISTING CLASS 1E VESSELS

Items required	Vessels affected
<b>Buoyant appliances</b> Each lifebuoy assumed to support 2 persons. Open reversible liferafts must be fitted with hydrostatic release, and comply with NSCV Subsection C7A 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.	All (except below)
Buoyant appliances (or open reversible liferaft/s*) 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
<b>Lifebuoys</b> Type and quantity of lifebuoys listed below is required on existing vessels when lifebuoys are acquired or replaced, or by 1 January 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
<b>Lifejackets</b> Type and quantity of lifejackets listed below is required on existing vessels when lifejackets are acquired or replaced, or by 1 January 2022 whichever comes first.	
Coastal lifejacket for 100% complement	All
<b>Distress signals – pyrotechnics</b>	
2 Red hand-held flares	All
1 Hand-held orange smoke signals	All
<b>Onboard communications and alarm systems</b>	
General emergency alarm system	≥25m
PA system if no direct communications to passengers in emergencies	All
Battery operated torch for each crew member	All

Items required	Vessels affected
<b>Medical Supplies</b> as per NSCV Subsection C7A Note: Generic equivalent solutions 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 January 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.)

<b>Distress signals – EPIRBs</b>	
All vessels operating >2nm seaward from land require an EPIRB that is registered with AMSA. (NOTE – this is in addition to any EPIRB carried as part of a liferaft or survival craft.)	
<b>From 1 January 2021:</b> A float-free EPIRB (a water-activated EPIRB in a float-free bracket)	≥12m
<b>From 1 January 2021:</b> A manually-activated or water-activated EPIRB	<12m

## Part 2 – Other equipment

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

NOTE: vessels in survey prior to NSCV should continue to carry as a minimum the equipment they were required to meet at the time, and/or may choose to (also) carry the below.

Items required	Vessels affected
<b>Communication equipment – NSCV C7B</b>	
Signalling light	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
<b>Emergency electrical installation and equipment</b>	
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)	All

Items required	Vessels affected
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
<b>Navigation equipment</b>	
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
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
<b>Miscellaneous equipment</b>	
Windlass, anchors and cables (See NSCV Subsection C7D for anchoring requirements)	All
Hawsers and warps	All
Logbook (See MO504)	All
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)	All
<b>Fire fighting equipment</b>	
Fire fighting equipment requirements are not based on vessel length alone, but are dependent on individual vessel layout, construction materials and operational aspects such as fire risk areas and cargo types etc. It is not practical to summarise all potential requirements in this guidance notice.	
Refer to requirements in table 1 of NSCV C4	All

**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