



LSA BASICS

Lifejackets

- **One lifejacket per person onboard.**
- Additional lifejackets (**10%**) near lifeboats and liferafts.
- Must fit all sizes (adult, child, infant).
- Equipped with:
 - Whistle
 - Light (min. 0.75 cd for 8 hours)
 - Retro-reflective tape
 - Must turn unconscious person **face-up within 5 seconds.**

Lifebuoys

- Minimum number:
- <100m ship – 8
- 100–150m – 10
- 150–200m – 12
- 200–300m – 14
- 300m – 16
- Half fitted with buoyant lifelines (30m min).
- **Two with smoke and light signals (released from bridge wings).**
- Two with self-igniting lights only.
- Must be **readily available** on open decks.

Liferafts

- Sufficient capacity for all persons onboard (**usually 100% + 25% spare**).
- Fitted with hydrostatic release units (HRU) for automatic deployment.
- Stowed for quick launching – manually or via davit.
- Equipped with:
 - **Emergency pack (A or B, depending on area of operation)**
 - Sea anchor
 - Survival manual
 - Rations, water, flares, repair kit, paddles, etc.



Lifeboats

- Cargo ships: At least one lifeboat each side (100% capacity each).
- Passenger ships: Enough lifeboats for **50% capacity each side, plus rafts for all.**
- Must be:
 - **Self-righting or partially enclosed.**
 - Fitted with engine and propulsion system.
 - Able to launch when ship has **20° list and 10° trim.**
 - Equipped with required survival gear (water, rations, compass, etc.).

Rescue Boat

- **At least one rescue boat (or lifeboat approved for rescue duty).**
- Passenger ships over 500 GT – at least one each side.
- Must be capable of quick launching and recovering survivors.

Emergency Position-Indicating Radio Beacon (EPIRB)

- 1 x float-free EPIRB per ship.
- 406 MHz (satellite system – COSPAS-SARSAT).
- **Must activate automatically when submerged or manually.**

Search and Rescue Transponder (SART) / AIS SART

- **At least one for ships under 500 GT.**
- **Two for passenger ships and cargo ships over 500 GT.**
- Used to locate survival craft by radar or AIS.
- 8. Distress Signals (Pyrotechnics)
- Each lifeboat/liferaft:
 - 2 x red handheld flares
 - 2 x orange smoke floats
 - 4 x red parachute rockets
 - Bridge locker: **full SOLAS set for emergency signalling.**

Immersion Suits

- **One per person onboard (cargo ships on international voyages).**
- Must:
 - Protect against hypothermia.
 - Allow wearer to **jump from 4.5m without injury.**
 - Permit climbing and swimming.
 - Additional suits near lifeboats and liferafts.

Thermal Protective Aids (TPA)

- **10% of persons onboard or 2 per lifeboat/liferaft, whichever is greater.**
- Used to reduce heat loss in cold conditions.

Launching & Recovery Equipment

- Lifeboat and rescue boat davits must operate on ship's list/trim.
- **Liferaft HRU (hydrostatic release unit) to release automatically when submerged.**
- On-load release gear for modern lifeboats.
- Painters, securing devices, and gripes maintained and ready for use.