

Time:

Boat Safety Equipment— Manual Propelling Devices and Anchors

Key Concepts:

Main Teaching Points

1) Discuss with students the requirement for anchor on vessels under 20 meters.

- a) An anchor must be attached to 15 m, 30 m, 50 m (in accordance with the length of the vessel) of cable, rope or chain in any combination.

2) Discuss situations where prohibition/exemptions may apply.

- a) A personal watercraft is not required to carry a manual propelling device or anchor in accordance with sub (3) if every person on board is wearing an approved PFD or lifejacket of appropriate size.
- b) A paddleboat or a water cycle is not required to carry a manual propelling device or anchor if every person aboard is wearing an approved PFD or lifejacket of appropriate size.
- c) A sailboard is not required to carry a manual propelling device or anchor if the operator:
 - is wearing an approved PFD of appropriate size
 - is engaged in an official competition, while attended by a safety craft carrying an approved PFD or lifejacket of appropriate size that can be donned in the water.

3) Review with students possible recommendations when conducting checks on anchors

- a properly designed (patent) anchor has much better holding power than a makeshift or home-made (non-patent) one. The choice of a good anchor also depends on the type of bottom (sand, gravel, etc.).
- As a rule of thumb, canoes, rowboats and dinghies may use approximately 0.65kg (1.5 lbs) of anchor for each metre (3'-3') of boat length (0.5 lbs per foot). For larger vessels that may require safe overnight anchorage, 1.3kg (2.8lbs) per metre (3'-3') of vessel length (1lbs per foot) may be a useful guideline. A larger anchor may be required under adverse conditions. It is recommended that every cruising boat should carry at least two suitable anchors.

4) Discuss the requirement for manual propelling devices

- a) *Manual Propelling Device*: means a set of oars, a paddle or any other apparatus that can be used manually by a person to propel a vessel

5) Discuss the examination criteria for a manual propelling device

- a) must be in good condition,
- b) readily available

Notes

Quick Points

	Anchor Requirements
	Prohibitions/Exemption
	Recommendations
	Requirements for manual propelling devices
	Examination Criteria

Instructors note

Additional
Recommendations:

Vessels that are using rope for their anchor are also strongly recommended to carry one metre of chain for every metre of vessel length (one foot of chain per foot of vessel length), secured to the anchor shackle. The inboard end of the chain, rope or cable should be securely attached to a deck cleat or stanchion that can easily withstand the weight of the anchor. The recommended range for anchoring with rope is between 5 and 10 times the depth of the water, depending on weather, sea and bottom conditions.

We recommend checking that the shackle pin has some type of locking device (lock wire) to prevent the shackle from unscrewing.

Reference material

PCCC manual Pg.55
Small Vessel Regulations
<http://www.tc.gc.ca/acts-regulations/GENERAL/C/C-SA/regulations/070/csa076/csa76.html> (SVR) -- Part II Exemptions

Rationalization:

Suggested Activities:



<i>Method of Evaluation & Condition</i>	<i>Skill / Knowledge and Standard</i>
<u>Skill</u>	
Each candidate shall participate in a thorough examination of the required boat safety equipment demonstrating the inspection criteria for each and/or may be evaluated for these points by written examination.	
<u>Knowledge</u>	
Each candidate shall participate in a thorough examination of the required boat safety equipment demonstrating the inspection criteria for each and/or may be evaluated for these points by written examination.	<p>Each candidate shall state all compulsory boat safety equipment for vessels under 20 meters. Candidates shall ID situations where prohibition/exemptions may apply and ensure that numbers, classifications and locations meet the requirements of SVR</p> <ul style="list-style-type: none">• Propelling device- any apparatus that can be used manually by a person.