

Berkeley Racing Canoe Center

Written Test for Steering and Safety Certification

April 2012 revision

name _____ key number _____

phone _____ email _____

This test is take-home and open book.
Collaboration with other BRCC members is allowed.

Most of the questions are true/false or yes/no. Mark the left column if the answer is True, Yes, Good Idea, or Required. Mark the right-hand column if the answer is False, No, Bad Idea, or Not Required. Questions left blank are assumed to be answered False, No, Bad Idea or Not Required.

For multiple choice questions there is only one correct answer.

Passing scores:

50/68 on questions 1-68 for non-steering keyholders.

145/165 on questions 1-165 for steering certification.

The following documents may be useful for completing the test:

From the BRCC website, [www.http://www.BerkeleyRCC.org](http://www.BerkeleyRCC.org):

- BRCC Bylaws
- BRCC Operating Rules
- BRCC Procedures Manual
- BRCC "Quick Guide for Guests"

From other web sources:

International and Inland Navigation Rules

<http://www.navcen.uscg.gov/?pageName=navRulesMain>

Steering manuals from other clubs:

Killer Guppies

<http://killerguppies.org/2010KG/myprivate/SCDBC%20Steering%20Manual%20021910.pdf>

Tacoma Dragon Boat Club

http://tacomadragonboat.org/wp-content/uploads/file/Steering_Text%5B1%5D.pdf

Basic BRCC Rules

Who can authorize the unscheduled use of a BRCC dragon boat?

1. Any BRCC officer.
2. Only the BRCC President, Vice President, Fleet Captain, Outreach Director or Competition Director.
3. Any BRCC Certified Steersperson.

Which of the following are requirements for being "Person in Charge" of a BRCC dragon boat?

4. A California Vessel Operator Certificate.
5. BRCC certification as a steersperson.
6. Completion of a US Coast Guard Auxiliary Safe Boating course.

Which of the following are necessary conditions for children under 8 years old to be allowed to come out on a BRCC boat?

7. A parent or guardian comes out on the boat with them.
8. A parent or guardian has signed the BRCC under-age waiver form.
9. The Person in Charge (Steersperson) considers it safe for them to be on the boat.
10. Are adult guests of BRCC members or other new paddlers ever allowed on a BRCC boat before signing the BRCC waiver form?
11. Can guests or new paddlers participate in more than three practices in any three-month period without becoming BRCC members?
12. Is a parent or guardian required to sign the BRCC liability waiver form if the paddler is over 14 but under 18?
13. Under some conditions is it okay to take out a BRCC dragon boat for a practice session without a BRCC-certified steersperson in charge?
14. Can a non-certified BRCC member steer a dragon boat if a BRCC certified steersperson is on the boat as "Person in Charge?"

15. ___ ___ Can a non-certified BRCC member steer a dragon boat if a BRCC certified steersperson is on a nearby dragon boat as "Person in Charge" of both boats?

What is required before taking a BRCC kayak or canoe outside the Berkeley Marina?

16. ___ ___ Approval by the BRCC Kayak and Canoe Chair or Vice President.
17. ___ ___ Successful demonstration of a "wet exit" if applicable to that type of boat.
18. ___ ___ Current BRCC membership.
19. ___ ___ Can a non-BRCC member ever use a one-person BRCC kayak or canoe inside the marina and under close supervision by a BRCC member who is qualified to use that boat?

Under what conditions can a BRCC dragon boat go outside the Berkeley Marina?

20. ___ ___ The wind is under ten knots and there are no visible whitecaps.
21. ___ ___ The person in charge is certified as an "outside steersperson" by BRCC.
22. ___ ___ A "float plan" has been filed with the Coast Guard district office.
23. ___ ___ An escort vessel maintains a communication schedule with the dragon boat.
24. ___ ___ Are inflatable lifejackets acceptable as replacements for foam lifejackets?
25. ___ ___ Are dogs ever allowed on a BRCC dragon boat?

Care of the Equipment

Which of the following are good things to do if you arrive a few minutes early for practice?

26. ___ ___ Use the bottom brush to clean at least one side of one boat.
27. ___ ___ Bail out any accumulated rain water.
28. ___ ___ When should the paddles and lifejackets be rinsed with fresh water?
- A) After each use.
 - B) After each use, but only when the sun is out.
 - C) Only after practice on Saturday, when the sun is out.

29. ___ Which is the correct knot for tying a dragon boat to the dock?
- A) The cleat hitch
 - B) The clove hitch
 - C) The half hitch
30. ___ ___ Is it okay to leave any of the paddle or PFD lockers unlocked during practice?
31. ___ When only one dragon boat is out for practice, how should it be tied up when it returns?
- A) Bow in.
 - B) Bow out.
 - C) The same way as when it left the dock.
 - D) The opposite way from when it left the dock, so the other side can be cleaned with the bottom brush.
32. ___ When both dragon boats are out for practice, how should they be tied up when they returns?
- A) They should swap berths and go in bow first, so the other sides can be cleaned with the bottom brush.
 - B) They should swap berths and go in stern first.
 - C) In the same berths, facing the same way as when they left the dock.
33. ___ How should the steering oar be stowed when a dragon boat is tied up?
- A) Center it in the boat and turn the handle so the oar blade is horizontal.
 - B) Leave it on the left side so that it is on the same side as the oarlock.
 - C) Leave it on the right side, so it crosses the boat from the oarlock.
 - D) Pull it all the way forward as far as it will go, so that the blade will not fall back into the water.

General Safety Considerations

What safety equipment is required to be on board for practicing inside the marina?

34. ___ ___ One properly fitting lifejacket for each person on board.
35. ___ ___ Whistle, tied to the steering oar or carried by the steersperson.
36. ___ ___ Air horn.
37. ___ ___ Anchor.
38. ___ ___ First aid kit.
39. ___ ___ At least two large bailing buckets.

- 40. ___ ___ Cellphone.
- 41. ___ ___ VHF radio.
- 42. ___ ___ Flashlights (night only).
- 43. ___ ___ Bow and stern running lights (night only).

If a dragon boat swamps inside the Marina, which of the following is usually a good idea?

- 44. ___ ___ Have all paddlers remove their life jackets and swim to the nearest dock.
- 45. ___ ___ Instruct the paddlers to stay in the water alongside the dragon boat, holding on but without pushing down, until enough water is bailed out to support their weight.
- 46. ___ ___ Remind paddlers who might be having difficulty staying afloat that they can use several paddles, especially carbon paddles, for extra buoyancy.
- 47. ___ ___ Tell paddlers who are having trouble climbing up onto a dock to swim to the edges of the Marina and pull themselves out on the rocks.

Which conditions are necessary for a paddler to take off their lifejacket during a practice?

- 48. ___ ___ They are a good swimmer and keep a lifejacket close at hand.
- 49. ___ ___ They are over 18.
- 50. ___ ___ They are a BRCC member.
- 51. ___ ___ They have signed the BRCC Swimming Declaration form indicating that they have the required swimming ability.
- 52. ___ ___ Never.

- 53. ___ If the steersperson, the coach and the drummer give conflicting commands in an emergency situation, who should the paddlers listen to?

- A) The coach
- B) The drummer
- C) The steersperson
- D) The person with the loudest voice

- 54. ___ What does a red triangular flag flying from the flagpole over the marin office mean?

- A) Small Craft warnings have been posted and strong winds are expected.
- B) Gale warnings have been posted and very strong winds are expected.
- C) The Harbormaster is serving cocktails in the marina office.

Which of the following should be included in the briefing for new paddlers and guests?

55. ___ ___ Instructions about how to float with a lifejacket on
56. ___ ___ A detailed lecture on the history of dragon boats.
57. ___ ___ A summary of paddling commands, especially "hold the boat."
58. ___ When calling from a cellphone, what is the recommended phone number to call for emergency medical assistance in the Berkeley Marina? (Other than 911, which may go through a remote CHP switchboard instead of directly to a local emergency response dispatcher.)
- A) The Coast Guard emergency number, 800-246-7236
 - B) The Berkeley Police Department emergency number, 510-981-5911
 - C) The Berkeley Police Department non-emergency number, 510-981-5900
 - D) Vessel Traffic Service, 415 556-2760

Marina Etiquette and Public Relations

59. ___ If you are in charge of a BRCC boat that hits a berthed boat and causes damage or leaves a visible mark, what should you do?
- A) Report the incident to the Marina office with full details.
 - B) Report the incident to the Marina office and to a BRCC Board member.
 - C) Report the incident to BRCC's insurance carrier.
 - D) Call the BRCC president after midnight.
60. ___ When is it okay to leave the gate to M-dock propped open?
- A) When other team members are expected to arrive soon
 - B) Only when there are BRCC members on the dock
 - C) Only when a public open house event is in progress
 - D) When you go to your car or to the bathroom
 - E) Never, because this can seriously damage the gate when the tide rises
61. ___ Where is a good place for the pre-practice warm-up?
- A) On the dock
 - B) On the grass
 - C) In front of the harbormaster's office

Which of the following is considered good practice for BRCC members or guests?

62. ___ ___ Forming a crowd on the dock that obstructs easy passage by boat owners.
63. ___ ___ Leaving a water hose uncoiled after use.
64. ___ ___ Inviting boat-owners and their guests to come out for a practice.
65. ___ ___ Leaving the locker combination locks one number away from the combination.
66. ___ ___ Leaving empty water bottles on the dock or storage float after practice.
67. ___ ___ Reporting lost keys to the marina office so the key can be deactivated.
68. ___ ___ If you have a disagreement or dispute with any other organization or individual in the Berkeley Marina, what should you do?
- A) Argue with them until they agree with you.
- B) Cooperate as much as possible, be polite and refer the problem to the BRCC Board.
- C) Call the Commodore of Berkeley Yacht Club.

Stop here if you are only taking the key test

Steering Technique

(To avoid confusion when looking towards the back of the boat, the terms "port" and "starboard" are sometimes used. Port is the left side of the boat, starboard is the right side of the boat. The port and starboard sides do not change with the viewer's orientation or direction of view. For example, the steering oarlock is always on the port side of the boat, regardless of which way the steersperson is facing.)

If a dragon boat is moving forward, which of the following will cause it to turn to the left, or to port?

69. ___ ___ Moving the steering oar handle to the port side.
70. ___ ___ Moving the handle in a circular rowing motion so that the steering oar blade moves through the water from port to starboard.
71. ___ ___ Twisting the steering oar so that the top of the T handle rotates to the port side of the boat, while keeping the oar on centerline.
72. ___ ___ Calling for "nose left."

If a dragon boat is not moving, which of the following will cause the boat to rotate to the left, or to port?

73. ___ ___ Moving the steering oar handle to the port side.
74. ___ ___ Moving the handle in a circular rowing motion so that the steering oar blade moves through the water from port to starboard.

75. ___ ___ Twisting the steering oar so that the top of the T handle rotates to the port side of the boat while keeping the oar on centerline.
76. ___ ___ Calling for "nose left."
77. ___ ___ Calling for paddlers on the right side to paddle forward and paddlers on the left side to back-paddle.
78. ___ ___ Calling for the forward paddlers to draw left and the aft paddlers to draw right.
79. ___ ___ Calling for all paddlers to draw left.

When doing a "draw left" maneuver from a full stop, which of the following will usually happen?

80. ___ ___ The boat will move sideways with no forward or aft motion
81. ___ ___ The boat will move forward slightly as it moves sideways
82. ___ ___ The boat will move backwards slightly as it move sideways
83. ___ ___ The boat will lean to the left unless the paddlers on the right side lean out.

Which techniques could be used to turn the dragon boat 180 degrees when it is not moving forward or backward?

84. ___ ___ "Tilling" or rowing the stern around in one direction or the other
85. ___ ___ Positioning the handle end of the steering oar to the left or right
86. ___ ___ Twisting the steering oar about its long axis, while keeping the oar on centerline
87. ___ ___ Have one side paddle forward and the other side backpaddle

If the boat is moving backwards, and the steering oar is rotated so that the top of the T handle goes to the port side of the boat, which way will the boat turn?

88. ___ ___ The bow will move to starboard, rotating the boat clockwise.
89. ___ ___ The bow will move to port, rotating the boat counter-clockwise.

If a dragon boat is moving slowly in a strong crosswind, which of the following will usually happen?

90. ___ ___ The boat will tend to turn into the source of the wind.
91. ___ ___ The boat will tend to turn away from the source of the wind.
92. ___ ___ The boat will tend to ride at right angles to the wind and be hard to turn in either direction.
93. ___ ___ The boat will be blown sideways.

94. ___ What is the most likely way to damage the steering oar oarlock?
- a) Pushing too hard on the oar handle.
 - b) Steering the boat through a very sharp turn when moving at race speed.
 - c) Losing control of the oar when the boat is moving backwards.
 - d) Excessive twist on the oar blade.

Rules of the Road

95. ___ ___ Is a dragon boat with no forward speed considered to be "under way" as defined by the Inland Navigation Rules?
96. ___ ___ If another boat is approaching a dragon boat with possible risk of collision, and the other boat does not see the dragon boat, does the dragon boat have an obligation to keep clear?

When altering course to avoid another boat:

97. ___ ___ The Inland Navigation Rules require that the course change be "early and substantial."
98. ___ ___ The Inland Navigation Rules require that the course change be "just sufficient to prevent a collision."
99. ___ ___ The Inland Navigation Rules state that the vessel with "right of way" has an obligation to "maintain course and speed as long as possible."
100. ___ ___ The Inland Navigation Rules do not apply to dragon boats.

Under the U.S. Inland Navigation Rules, which kind of boat is the "right-of-way" or "stand-on" boat with respect to the other when the two are approaching with risk of collision? Assume neither boat is overtaking the other, unless specified, and assume that sailboats are under sail with no engine power.

101. ___ ___ Powerboats have right-of-way over sailboats
102. ___ ___ Sailboats have right-of-way over powerboats
103. ___ ___ Neither has right of way over the other.
104. ___ ___ Large commercial vessels in a channel have right-of-way over dragon boats.
105. ___ ___ Dragon boats have right-of-way over large commercial vessels in a channel.
106. ___ ___ Neither has right-of-way over the other.
107. ___ ___ Dragon boats have right-of-way over sailboats.
108. ___ ___ Sailboats have right-of-way over dragon boats.
109. ___ ___ Neither has right-of-way over the other.

110. ___ ___ Dragon boats have right-of-way over powerboats.
 111. ___ ___ Powerboats have right-of-way over dragon boats.
 112. ___ ___ Neither has right-of-way over the other.
113. ___ ___ A Sailboat overtaking a powerboat has right-of-way over the powerboat
 114. ___ ___ A powerboat being overtaken by a sailboat has right-of-way over the sailboat.
 115. ___ ___ Neither has right-of-way over the other.
116. ___ ___ A dragon boat overtaking a powerboat has right-of-way over the powerboat
 117. ___ ___ A powerboat being overtaken by a dragon boat has right-of-way over the dragon boat.
 118. ___ ___ Neither has right-of-way over the other.
119. ___ ___ A dragon boat overtaking a sailboat has right-of-way over the sailboat
 120. ___ ___ A sailboat being overtaken by a dragon boat has right-of-way over the dragon boat.
 121. ___ ___ Neither has right-of-way over the other.
122. ___ ___ A Dragon boat has right-of-way over a kayak.
 123. ___ ___ A Kayak has right-of-way over a dragon boat.
 124. ___ ___ Neither has right-of-way over the other.
125. ___ ___ A Dragon boat has right-of-way over a swimmer.
 126. ___ ___ A swimmer has right-of-way over a dragon boat.
 127. ___ ___ Neither has right-of-way over the other.

Safe Navigation in the Harbor

Dragon boats practicing in the Berkeley Marina should:

128. ___ ___ stay as far to the right side of the channel as possible.
 129. ___ ___ Stay away from the blind corners at the edges of the channel but favor the right side.
 130. ___ ___ Make wide turns around blind corners.
 131. ___ ___ Observe the “red right returning” rule.

When entering the main fairway from a narrow side channel:

132. ___ ___ Check very carefully for cross traffic that may be hidden from view.
 133. ___ ___ Always come to a full stop before entering the main channel.

134. ___ ___ Respect a call to "hold the boat" from the stroke paddlers because they may see cross-traffic coming around a blind corner before the steersperson.

Why is it often hazardous to steer a dragon boat beyond the ends of the rock breakwater?

135. ___ ___ The waves might be too high for safe operation beyond the protection of the breakwater, and this can be difficult to determine from inside.
136. ___ ___ There is danger of collision with a fast powerboat coming around the blind corner at the south or north ends of the breakwater, made worse because many powerboats do not reduce speed until they reach the speed limit signs at the inner harbor entrance.
137. ___ ___ There are strong currents outside the breakwater that can sometimes make it difficult to return to the harbor.

Which of the following is a good strategy when there is heavy boat traffic in the marina?

138. ___ ___ Use the north-south axis of the marina to avoid the main channel.
139. ___ ___ Stay to the extreme far right of the main channel and avoid the areas near the hotel and harbormaster's office.
140. ___ ___ Practice outside the marina if weather conditions permit and a certified outside steersperson is on board as Steersperson in Charge.
141. ___ ___ Stay close to the detached rock breakwater, on the downwind side.

Which of the following is a likely cause of a collision in the Berkeley Marina?

142. ___ ___ Rounding a blind corner.
143. ___ ___ Losing control and swerving into an oncoming boat.
144. ___ ___ Being blown sideways into a berthed boat due to a strong crosswind.
145. ___ ___ Being hit by a sailboat that has poor forward visibility because of a low-cut sail.
146. ___ ___ Loss of steering control by a speeding powerboat.

Which of the following is good practice for avoiding collisions?

147. ___ ___ Stay to the extreme far right of the fairway.
148. ___ ___ Make early and exaggerated course changes to avoid other boats, so they can see and understand your intentions to keep clear.
149. ___ ___ Never operate in fog.
150. ___ ___ Never allow an inexperienced steersperson to practice steering inside the marina.

151. ____ What is the speed limit inside the harbor?
- A) 5 knots
 - B) 5 MPH
 - C) "no wake" speed
152. ____ Which of these boat types is usually moving the fastest when inside the marina?
- A) Sailboat under power
 - B) Sailboat under sail
 - C) Kayak
 - D) Dragon boat

Medical Emergencies

153. ____ ____ In a medical emergency, if calling for help by cellphone, is it better to call the Berkeley Police Department at 510-981-5911 instead of the CHP at 911?

Sound Signals

154. ____ If a large ferry is approaching a dragon boat head-on, and the ferry signals with two short horn or whistle blasts, what does it mean?
- A) It intends to pass to the left or "starboard-to-starboard" (like cars in England)
 - B) It intends to pass to the right or "port-to-port" (like cars in the U.S.)
 - C) it intends to increase speed.
 - D) it intends to stop.
155. ____ If you agree with what the ferry's signal indicates they intend to do, what should you do?
- A) Answer with one long whistle signal.
 - B) Answer with two short whistle signals.
 - C) Answer with five short whistle signals.

156. ___ If you do not agree with what the ferry's signal indicates that they intend to do, what should you do?
- A) Answer with one long whistle signal.
 - B) Answer with two short whistle signals.
 - C) Answer with five short whistle signals.

157. ___ What is the sound signal for "danger!"
- A) 1 long whistle blast
 - B) 2 short whistle blasts
 - C) 2 long, 1 short, 1 long whistle blasts.
 - D) 3 whistle blasts.
 - E) 5 whistle blasts.

Navigation Lights

158. ___ ___ Should the red running light be visible only from the port side?
159. ___ ___ Should the red running light be visible from the stern?
160. ___ ___ Should both red and green running lights be visible from directly ahead of the dragon boat?
161. ___ ___ On a sailboat under sail, should the white light be visible from all directions?

Dealing with Sailboats

162. ___ What does a typical sailboat, when working its way upwind, do when it "comes about" or "tacks?"
- A) Turns 45 degrees.
 - B) Turns 90 degrees.
 - C) Turns 180 degrees.
163. ___ ___ A sailboat in the Berkeley Marina is most likely to have restricted forward visibility when sailing with a low-cut jib.
164. ___ ___ A sailboat skipper is most likely to not be paying attention to where their boat is going when the mainsail is being raised or lowered.

165. ____ ____ Sailboats can stop quickly but can't turn, while dragon boats can make sharp turns but can't stop easily.