

National Marine Manufacturers Association

Product Compliance Specialist Examination

Navigation Lights & Sound Signals (2013 MY)

ABYC A-16 (11) and A-23 (04, Corrected 05)

1. A 22' fishing boat has separate side lights due to an anchor roller at the bow. Where should the all-round light be positioned for use in international waters?
 - a. On the centerline of the T-top
 - b. On the aft starboard corner of the deck
 - c. On the aft deck as close to centerline as possible
 - d. On the console in plain view of the operator

2. To comply with the federal regulations regarding navigation lighting
 - a. boat manufacturers must install navigation lights on all boats
 - b. boat manufacturers must at a minimum provide location instructions
 - c. boat manufacturers must install navigation lights on power driven boats
 - d. boat manufacturers are not required to install navigation lights

3. A 40' sport cruiser must display the following lights:
 - a. All-round light and separate or combined side lights
 - b. Forward facing light, spot light and towing light
 - c. Masthead light, stern light and side lights
 - d. All-round light on the boats centerline and combined side lights

4. A 28' boat has separate side lights on the forward corners of the hardtop and an 18" tall all-around light mounted on the hardtop on the boats centerline. Which of the following is correct?
 - a. This is not an acceptable lighting configuration
 - b. The boat may operate in inland waters only
 - c. The boat may operate in international waters only
 - d. The boat may operate in inland or international waters

5. Navigation lights shall not be obscured by
 - a. fixed structures
 - b. optional equipment
 - c. crew members or passengers
 - d. both a and b

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6. A combination side light on a boat less than 20'
 - a. Must project a horizontal arc of visibility totaling 235 degrees
 - b. Must project a horizontal arc of visibility totaling 112.5 degrees
 - c. Must project to 22.5 degrees abaft the port and starboard beam
 - d. Must project to 90 degrees abaft the port and starboard beam

7. An anchor light
 - a. must be at least 1 meter above the side lights
 - b. must be permanently installed
 - c. must be incorporated as part of a navigation light
 - d. none of the above

8. Navigation lights shall be installed:
 - a. to prevent reflection off the vessel's structure
 - b. to prevent reflected glare from fog or mist
 - c. to prevent damage in any situation
 - d. to be in the vessel operator's line of sight

9. Due to the fluctuation of battery voltage it is permissible to provide a variable control for navigation lighting
 - a. False
 - b. True if no onboard battery charger is installed

10. True statements regarding Navigation lights are as follows:
 - a. All round lights that are installed above a bimini top, must be tall enough so that the light is visible at 7.5 degrees below and above the horizontal.
 - b. Side lights do not have required vertical arcs of visibility.
 - c. All navigation lights are required to have USCG visibility range permanently shown on the light fixture.
 - d. Only a and c are true.

11. Sidelights may be installed
 - a. below the sheerline under international rules
 - b. below the sheerline under inland rules only
 - c. above or below the sheerline under international rules
 - d. only above the sheerline

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12. A masthead light on a 42 ft power driven vessel must be:
- At least 8 ft above the waterline
 - At least 2.5 meters above the sidelights
 - At least 1 meter above the gunwale
 - At least 2.5 meters above the gunwale
13. Which of the following is not an acceptable lighting configuration?
- A 30' boat has the all-round light 1 meter above the side lights.
 - A 42' boat has separate side lights and a masthead light
 - A 20' boat has a combination side light with an all-round light not on the boats centerline
 - A 26' boat has separate side lights with an all-round light on the boats centerline
14. The complete navigation lighting configuration
- includes all lights plus the anchor light
 - is displayed by one switch or switch position
 - can be displayed by individual switches on sailboats
 - both b and c
15. Navigation lights must be marked with all except
- manufacturers name or identifying mark
 - designation of proper replacement lamp
 - identification of the certifying body
 - the USCG xNM marking
16. For the purposes of NMMA certification, which of the following is not true?
- All NMMA certified boats must be equipped with navigation lights
 - All NMMA certified boats must be inspected to insure compliance
 - All NMMA certified boats must use Type Accepted navigation lights
 - All NMMA certified boats must use navigation lights that comply with A-16
17. A towing light is a light that
- has the same characteristics as an all-round light
 - is yellow in color
 - must be carried aboard at all times
 - both a and b

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18. Vessels from 5 meters to 20 meters are required to be equipped with

- a. A percussion bell
- b. A lung, manual, or power operated sound signal appliance
- c. A power operated sound signal appliance
- d. A permanently installed sound signal appliance

19. ABYC A-23 addresses sound signal devices for all

- a. power driven vessels 5 meters to 20 meters in length
- b. vessels less than 12 meters in length
- c. vessels less than 20 meters in length
- d. vessels other than manually operated vessels

20. Each sound signal appliance shall be marked

- a. with the manufacture's name and dB rating
- b. with the manufacture's name or identifying mark and "A-23"
- c. with the vessel length range
- d. both b and c

21. The minimum sound intensity of a bell shall be:

- a. 110 dB(A) at one meter
- b. 98 dB(A) at one meter
- c. 110 dB(A) at three meters
- d. 105 dB(A) at one meter

22. On a vessel five meters or less a sound signal device

- a. is not required
- b. can be lung powered
- c. can be manually operated
- d. both b and c

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23. On vessels that require a bell
- the bell should have a mouth diameter greater than 200 mm
 - the bell must be installed in reach of the operator
 - a device having similar sound characteristics may be used
 - the bell shall be permanently installed
24. On vessels less than 12 meters used in inland waters a permanently installed sound signal appliance
- can be installed anywhere on the vessel
 - shall be mounted so as to direct the sound forward of the vessel
 - shall be mounted so as to direct the sound to the overtaking side of the vessel
 - may be installed inside an anchor locker
25. Which of the following statements is NOT true?
- The manufacture shall provide instructions for the installation, maintenance, and operation of the sound signal appliance
 - External parts of the sound signal appliance shall have no sharp edges
 - Under Inland Rules a bell may be substituted where a whistle is required
 - Percussion bells shall be made of corrosion resistant materials