

**Demo PDF file. This file includes questions: 10 from 327. Full version of file looks the same as demo, but full version includes all questions. You may download file with all questions by link on bottom of this page**

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## **Q158 - Navigation and Deck General/Safety**

**1. Which is usually the most gentle way of riding out a severe storm on a larger vessel?**

- Rig a sea anchor
- Hove to
- Head into the seas at slow speeds
- **Running before the seas**

Note:

*Running before the seas minimizes stress on a large vessel during a severe storm by reducing pitching, slamming, and maintaining steerage, making it the most gentle approach compared to other options like heaving to, heading into the seas, or using a sea anchor.*

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**2. A vessel having continuous closely spaced transverse strength members is \_\_\_\_\_.**

- cellular framed
- web framed
- longitudinally framed
- **transversely framed**

Note:

*A transversely framed vessel is defined by continuous, closely spaced transverse strength members running athwartship.*

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**3. You are planning to use a crude oil washing system. What precaution must be taken with the source tank for the washing machines?**

- The source tank must have been crude oil washed at least once in the past 150 days.
- The oil in the source tank must be sampled for compatibility.
- The inert gas system must lower the oxygen content in the source tank to a maximum of 12%.
- **At least one meter must be decanted from the source tank.**

Note:

*Before using a tank as a source for a crude oil washing system, at least one meter of liquid must be removed from the bottom to eliminate water and sludge.*

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**4. You have water washed your cargo tanks using the fixed machines. What should you do before using portable machines to clean areas screened from the wash of the fixed machine by structural members?**

- Ground the fixed machines to eliminate any electrostatic buildup on the cleaning head.
- **Ventilate the tank to eliminate any electrostatically charged mist.**
- Insure that the tanks are not stripped until the final wash is started.
- Attach the water supply hose to the portable machine after the cleaning head is positioned inside the tank.

Note:

*Ventilating the tank removes electrostatically charged mist, which can ignite flammable vapors. Water washing creates a fine mist that can become electrostatically charged, and introducing portable equipment increases the risk of static discharge. Therefore, ventilation is necessary before using portable machines.*

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**5. According to Coast Guard Regulations (46 CFR), when loading, or discharging oil in bulk at a dock, which of the following signals must be displayed?**

- **A red flag (day), red light (night)**
- A signal is not required for discharging oil, only gasoline
- A yellow flag (day), red light (night)
- A green flag (day), green light (night)

Note:

Coast Guard regulations (46 CFR) mandate a red flag during the day and a red light at night when loading or discharging oil in bulk at a dock.

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**6. Your tank vessel is loaded down to her marks, and you find that she has too much trim by the stern. Which of the following actions would reduce the excessive trim?**

- add ballast forward
- load more cargo forward
- **shift bunkers forward**
- discharge cargo from the after tanks

Note:

To reduce excessive stern trim on a vessel already loaded to its marks, shifting bunkers forward is the correct action; this moves weight forward, reducing the stern draft and increasing the forward draft without exceeding the vessel's load line.

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**7. Your tank vessel is fully loaded, and you find that she is down slightly by the head. To adjust the trim, you may \_\_\_\_\_.**

- **shift cargo aft**
- add ballast aft
- load more cargo aft
- All of the above

Note:

To correct a vessel slightly down by the head when it is fully loaded, shift cargo aft to adjust trim without exceeding displacement limits.

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**8. What functions due reliquification plants perform?**

- keep cargo at a temperature and pressure within the design limit of the cargo system during transport
- cool down cargo tanks and pipes prior to loading
- reliquify cargo vapor generated during loading and return it to the cargo tanks
- **All of the above**

Note:

Reliquefaction plants perform multiple functions, including maintaining cargo temperature and pressure, cooling tanks and pipes, and reliquefying cargo vapor for return to the tanks. Therefore, all listed functions are correct.

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**9. In an inert gas system, high pressure alarms are set in the main vapor collection line to cause an audible and visual alarm if the pressure reaches a certain level. What is the percentage of the lowest relief valve setting at which the alarm must sound?**

- 70%
- 80%
- **90%**
- 95%

Note:

The high-pressure alarm in an inert gas system must activate at 90% of the lowest relief valve setting to provide a safety margin and allow for crew response before any relief valve opens, adhering to industry standards and SOLAS/IMO guidelines.

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**10. Each distress signal and self-activated smoke signal must be replaced not later than the marked date of expiration, or not more than how many months from the date of manufacture?**

- 30 months
- 36 months
- **42 months**
- 48 months

Note:

*Distress and self-activating smoke signals must be replaced no later than their expiration date or within 42 months of the date of manufacture, whichever is earlier.*

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