



UK MARINE TRAINING CENTRE (UMTC)

SAI POOJA BUILDING, SHOP NO. 4, PLOT NO. 36, SECTOR - 34. KAMOTHE, NAVI
MUMBAI - 410 209 MAHARASHTRA, INDIA.

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Class 2 Orals Question

Candidate: Ini Nyong

Date: 03/11/2022

Name of examiner: Andrew Lee

Time: 1hour 10 minutes

1. Showed me 2 stroke timing diagram and asked me to explain
2. How would you know if the engine is working efficiently? Told him draw card and power card
3. Showed me diagrams of draw cards, 4 of them but asked questions on only the first 2. Early injection and late injection. What the drawings represent, the meaning of the first dotted line on the diagram and the consequences of the early and late injections. He was looking for uptake fire.
4. Asked what actions I will take in the event of uptake fire.
5. What actions will you take to correct the late injection on the fuel pump
6. How do you adjust the fuel pump timing?
7. What will be of concern to me as a result of the late injection – MARPOL annex IV I mentioned Sulphur content and he asked what else would be of concern. NOx. How do you control? I mention the primary and secondary methods of control.
8. If you have to change the fuel pump, what is required of you. He was looking for NOx technical file.
9. High temperature alarm in the refrigeration room, what would you do?
10. Your compressor cuts off on high pressure, what could be the possible causes
11. What records do we take in the engine room and why?
12. Why do we take machinery running hours?
13. Your compressor runs for 2-3 hours daily, all of a sudden, it is running for 6 – 7 hours, what could be the reason?
14. What would happen if the intercooler is leaking?
15. What are the safety devices on the compressor?



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16. How many relief valves do we have on the compressor?
17. What is the difference between relief valve and safety valve?
18. How do we get fresh water on board? I explained the two staged vacuum system and he asked which water is used in the condenser.
19. If your temperature and vacuum are ok, but you are still getting salt content above the required level, what could be the problem?
20. What happens to the brine generated?
21. How is the water generated treated?
22. Where do we get the guide for the treatment? Captains medical guide
23. What do we need to do to use the water for boiler feed
24. How do we remove oxygen?
25. If you find oil floating on the boiler reservoir what could be the reason?
26. You want to carryout maintenance on the fuel oil tank, talk me through the procedures to take?
27. What are the gases the gas tester test for?
28. What percentage of oxygen should you expect?
29. If the gas tester reads 30% oxygen, what does that mean? Faulty tester, he was looking for calibration.
30. If all of a sudden you no longer get a response from the motor man in the tank, what will you do?
31. What are the checks you carry out on the BA set
32. If you need to set up lighting in the tank, what kind of light would you use and what checks will you carry out?
33. Showed me diagram of a star-delta starter circuit and asked me to explain.
34. Why is this method used?
35. What will happen if star connection does not disconnect and the delta connection comes online?
36. What is the difference between the Over current relay and Fuse?
37. If you want to work on the motor what procedure would you take? Was looking for LOTO
38. There is fire in the engine room and the chief engineer is incapacitated, the captain has asked you to release the CO2, what is the procedure? I mentioned quick closing valve and he mentioned that I should have started me emergency generator so I don't throw my ship into blackout.



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39. Why is the pilot gas to the main valve released first?

40. Where would you get this procedure from?

41. What does the SMS comprise of?

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Aditya Sir