



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 Oral's Questions

Date: 12 June 2024

Examiner: Nick Philips

Candidate name: Karambir Singh

Duration: 1Hr 15 mins

Result: Pass

1. On which type of ship you have sailed.
2. What is your sailing experience and what type of main engine you have sailed on?
3. How you came to know about syllabus of the oral exam.
4. Draw valve timing diagram of 2-stroke engine and explain.
5. Explain the working of main engine exhaust valve.
6. Explain the overhauling of 2-Stroke exhaust valve.
7. What you will do if the valve of exhaust valve wear down is above the limit. (wanted to listen about nox technical file and IMO no. of the spare part)
8. What all checks and clearances you will take in two stroke exhaust valve overhauling.
9. Liner removal of Two stroke engine.
10. Checks on the liner and how you will do the liner calibration.
11. What is lacquering , why honing is important.
12. What are the different types of liner wear?
13. Possibly area of crack in Liner.
14. Checks on piston.
15. Explain the procedure of die penetrant test.
16. Enclose space and entry procedure.
17. How to do gas check in an enclosed space? And gas percentage? What should be the length of gas pipe of gas meter?
18. How to open the hydraulic nut?
19. What will happen if we will apply more pressure then required while opening the hydraulic nut? (Wanted to listen plastic deformation of stud)
20. What is plastic deformation and what is elastic deformation Explain with stress strain diagram.
21. What is roto cap
22. Difference between the properties of LO of 4-stroke engine and 2-stroke engine.
23. Statutory certificates to be carried on board.
24. SOLAS chapter 3, and certificate issued on that basis.
25. How you will ensure that your engine is not contributing in air pollution. (EIAPP certificate , NOX technical file, NOX and SOX emission)
26. How you will limit the NOX emission?
27. Explain SCR.



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28. What is ODP and GWP of refrigerant And what is the value of ODP and GWP of refrigerant used onboard?
29. With respect to fire control what structural provision give to the ship.(wanted fire doors and bulkhead)
30. Explain different types of bulkheads. (Type A,B,C)
31. As a second engineer, how you will ensure the MLC compliance.
32. Checks to be done on your ac plant.
33. Effect of accumulation of water in AHU unit. (wanted to listen about Legionella bacteria)
34. What types of starters used on board
35. explained soft starter? Why It is called as frequency starter?

Lastly he said, **I am passing you.** And he asked me about my pending subject and when I am going to join the ship.

UMTC - 9673855053
Shivaji Sir
Aditya Sir