



# 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: 25-01-2024

Examiner: MICHEAL GREENWOOD

Candidate name: Kartik Dogra

Duration: 1Hr

Result: Pass

Started with asking Identity proof (Passport), Room inspection, Do I know that this is recorded ,experience on types of vessels & engines etc. (Told him sailed on typical 2 stroke MC engine)

1. Handing over from 2nd engineer. What all things you will ask.
2. Ship has Upcoming survey, where will you find this information from?
3. What all things a surveyor check while he visits?
4. What will you show him as a proof that you comply with all regulation?
5. List of certificates.(IOPP,IAPP,EIAPP,ISM,LOADLINE,SAFE MANNING, anti fouling certificate, etc)
6. What is ISM? DOC & SMC? How will you comply on ship?
7. What is IOPP certificate?
8. Regulation regarding OWS operation and discharge in special area.
9. Main engine one unit not firing, reasons?
10. How you will come to know? (Trend analysis, checking log book for parameters)
11. How will you figure out exact problem? (Taking performance)
12. Fuel injector testing, what all things you will check, how to check spray patterns?
13. Showed me a draw card and asked me about it. (It was a late ignition)
14. How will you rectify? (Changing injection timing)
15. How will you check fuel pump timing? (Hair line method for 4s, & VIT for 2s)
16. What is VIT? What do we change in VIT? (Position of Barrel)



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17. How fuel injection stops? What's there on plunger that stops fuel injection? (When helical groove uncovers the spill ports)
18. Fuel oil analysis report?
19. What all things to check?
20. Vanadium & sodium? (Hot corrosion)
21. How sulphur is a problem as an Engineer point of view? (Cold corrosion and formation of corrosive material)
22. How to prevent cold corrosion? (Avoid operating at low load and lube oil of proper TBN)
23. Lube oil purpose and TBN?
24. Asked me to overhaul one complete unit of D.G?
25. Stopped me in between and told me that piston is out and now tell me what all check will you carry out on piston?
26. Cylinder liner types of wear?
27. On inspecting liner you observe Polish surface, is it a good indication?
28. What are the Causes and effects of polish or shinny surface?
29. How it is rectified? Name of the tool?
30. Alternator safeties?
31. Under voltage relay, over current trip?
32. What other safety trips are there?
33. Does over current trip activate immediately? What in case of short circuit?
34. Type of earthing system on your ship? What is the purpose?
35. Your 4<sup>th</sup> engineer calls you and informs D.G is showing only 400v inside of 440v? What might be the problem?
36. Frequency of the Generator is hunting? What might be the problem?
37. Oil in boiler cascade and water drum, actions you will take?
38. Procedure for boiler inspection?
39. Enclosed space entry procedure?
40. What all things boiler survey includes?



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41. What steps will you take on receiving OMD alarm?
42. Chief engineer doesn't receive your call?
43. What will be your action?
44. What will you inspect inside crankcase?

It was already 2100 and I asked him if I can drink water. I finished drinking and prepared myself for further question mostly on fire fighting systems but then suddenly he told me that I will PASS you. You fairly answered all questions.

On remark he told me to get more knowledge on survey, Certificates and electrical safeties as he could see I was uncomfortable answering those questions. Rest he was satisfied with all other answers.

Sharing my experience

-I was very nervous at start so even being asked on simple thing I was facing trouble giving answers as I was over thinking on what else he could ask but then I speed up and most of the time I answered him only those things which I was confident about like IOPP certificate and OWS regulation & I kept Marpol annex certificates on top so that he ask me mostly on those as I am weak on other certificates which turn out to be in my favor.

-He was generous enough to not go in depth and was also very helpful.

-Whenever he finds the answer he was looking for he starts writing in his checklist and after seeing that I started stopping myself answering him to avoid any more cross questions.(but complete your answer)

-Sometime you can decide what next question could be so have to present answer in that way.

ALL THE VERY BEST TO EVERYONE !