



UK MARINE TRAINING CENTER (UMTC)

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

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23.06.2021

Surveyor Name: N R Phillips

Second Engineer Oral Exam (online)

Result: - Pass

Duration:-1 hour 30 minutes

First of all he asked me about the engine I have sailed I told him that I did ME engines so he want me to explain what is ME engine how it is different form MC engine and how it works.

I told him about about the working of ME engines.

- 1.How do u know about your Class 2 oral exam syllabus?
- 2.Draw and explain 2 stroke timing diagram?
- 3.Draw and explain power card and draw card?
- 3.Draw ignition delay diagram and explain the causes?
4. What do u meant by injection delay and how to know about it?
- 5.What is VIT ? what is significance of it?How to know about setting of VIT of all the units.
- 6.Draw Fuel pump and show how VIT and fuel plunger is adjusting?
- 7.How to confirm that fuel bunkered is bad quality and what are the information given in BDN?
8. What are the action u will do if u receive bad quality of fuel?
- 9.How do u know that ur Ship is complied with Marpol Annex 6? He want to listen about IOPP certificate? What is SOX limits and he want to know about yearwise changing limits?
10. What are all other certificates expected on board vessel?I told him 7-8 certificated but he asked me more.



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11. What book onboard u follow regarding safety measures? I told him COSWAP he was very happy.
12. Explain ISM in details? What certificates issued to the company and ship n who issues?
13. How u will enter in double bottom tanks ?He want to know about enclosed space entry procedure
14. Where do u expect H₂S and what is the limit? How u know that it is safe to enter in double bottom tank.
15. How u will prepare ur boiler for survey explain procedure in details. What are thing u will check in the furnace side of boiler.
16. How to overhaul safety valve and what are the test u will do to know safety valve spring is in good condition.
17. What are causes of cracks in the boiler tubes?How to find crack tube
18. Explain all the boiler water test in details and how u will know about sea water ingress
19. What u will do to reduce oxygen level in the boiler water.
20. How do u know about the healthy condition of motor
21. What is the procedure of IR testing of motor? What are the steps to follow before overhauling any electric motor
22. Draw star and delta connection circuit and explain the safeties?
23. What do u mean by STCW
24. What is IMO and what are the other convention of IMO.
25. What do u mean by SOLAS?
26. What do u mean by bulkhead deck.
27. what are the type of bulkheads? I explain about A60, B30 and C bulkheads



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28. What are the types of watertight doors.

29. How will you know that your Air conditioning system is not efficient.

30. What are the signs of gas leakage and how will you restore your plant.

31. What do you mean by critical temperature of a gas?

32. How are these gases related to pollution?

33. What is the procedure for recovering the gases and to maintain records.

34. What are the other systems or books you follow to ensure safety of ships. He wants to listen about SMS system and lock out tag out procedure

35. How will you guide your juniors to prepare for class 2 oral exam?

He told it's already 1 and a half hour I give you pass results. Then he asked me about my pending subject and when I am going to join ship?

He was a good person and was very helpful.