



# UK MARINE TRAINING CENTRE (UMTC)

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

EMAIL : umtcindia1234@gmail.com | PH : +91 9673855053, +91 7021406134

## Class 2 Oral's Question

Date: 21 Nov 2022

Surveyor: Andrew Lee (AK Lee)

Candidate: Nidhin R.

Time: 45 MINS – Online class 2 Orals

- 1.Types of ships sailed and type of engine? LPG, ME & MC engine
- 2.Draw Two stroke valve timing diagram and asked to explain valve timing diagram Why is overlap present.
- 3.How will you asses the performance of main engine: Taking indicator cards
- 4.Shown early injection, injection delay, draw cards and asked what all indications of this, explain this diagram.
- 5.How will you conclude early injection, what are indications, what are the actions you will take to rectify
- 6.If late injection happens what all the indications of late injection: effects of late injection
- 7.So, what will happen if improper combustion
- 8.Effects of accumulation of carbon particles in scavenge places
- 9.Uptake fire, how to identify if the fire is small or iron fire & actions to fight it.
- 10.FO tank entry procedure in detail, Atmosphere checks and contains (I added atmos limit from COSWP)
- 11.What will you do if radio communication is lost from the team.
- 12.Who will be STBY at the entrance and why.
- 13.Shown Co2 bottle fire extinguisher line diagram and asked to explain the diag what are the safeties.



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14. CE is injured and Master asked you to release CO<sub>2</sub> to ER, explain complete procedure and what all things to check during release. Dangers in Co<sub>2</sub> room.

15. 4th Eng calls and tell you that frequency is hunting while taking AE on load, your actions and causes.

16. What is overspeed protection, reverse power protection. How to test.

17. Do you have Bow thruster: yes: explain about principle – hydraulic driven fixed pitch propeller? explain full hydraulic circuit?

18. Safeties of Large size motors

19. why use starter & delta ckt for large motors explain with numbers? when you will change star to delta? what is the reason of trip after changing to delta (he was looking for timer fault). What will happen if stuck in star.

20. Reason for boiler PH 13, what will happen to boiler, action, cause. Foaming & purging ?

21. Reason for caustic embrittlement how to control.

22. explain full refrigeration cycle of LPG tanker. How to maintain cargo tank temp.

23. What is there in SMS where will you find. Where can you get RA , checklist , permit to work.

24. All Ch of ISM what is ISM

25. DOC SMC

26. Bunker delivery note contents and how long to keep onboard

27. Marpol ANX 6 reg 12 to 22

28. STCW

29. What is NO<sub>x</sub> tec file and what is there in it

30. Oil in cascade tank, how will you know from where is it leaking and your actions and wt chem to use.

31. what is EEBD where to use.



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32. Prov. Ref cycle explain and effects of air and moisture in system. Reason for HP cut-out.
33. Short cycling on ref compressor and reason.
34. how do you know if survey is due.

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ADITYA SIR