



# 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 Questions

Date: 09-05-2024

Examiner: **Andrew Lee**

Candidate name: **VIJAY KUMAR SONI**

Duration: 1Hr

Result: Pass

1. Please confirm your name? checked my passport only, (Not request to see surrounding)
2. Do you want to the recording as a proof? Said NO
3. what kind of vessel you sailed on?
4. Start with sharing screen & showed 2 stroke valve timing diagram (no angle mention, only number written on each stage) & asked what is this & to explain cycle. Then he asked at point of injection, if late injection, what is the reason & effect on unit.
5. He asked how you know injection is late,(I told by draw card), then asked how you obtain draw card by mechanical means or electronic means, had you participate in obtaining Draw card.
6. He again share screen & showed me Draw card with point with number on line, asked what this diagram & point (@ Pcompression),then asked what will be reason for less Pcomp. (I told T/C, scavenge port, air cooler, piston ring pack, exhaust valve)
7. How exhaust valve operate, how you know Exhaust valve performance is good (Light spring diag.)
8. What you check on liner while inspection, what is clover leafing ,how is occurs, how effect on lubricating quills.
9. How cylinder oil lubricator work. If cylinder lubrication injection is more than normal what happens & how you check.
10. How much scavenge temp need (Replied 40-45 C), why not 10-20 C, what will effect (Cold corrosion).
11. How you know scavenge fire in scavenge space, how to extinguishes scavenge fire, procedure.
12. Asked me Refrigeration cycle ( told him compressor outlet to compressor inlet with phase change)
13. Compressor HP cutout due to fouled condenser, what will you do, if leak in condenser tube what will be effect on plant & how to repair.
14. If LT expansion tank level going higher, what will be reason & what action (told LT cooler mixing with SW) how you check & rectify in plate type cooler. What test after repair?
15. What all things you check on Boiler Hot well, reason for oil trace &how to find source & rectify.
16. What all test on boiler water, Reason & effect of Foaming & how to rectify.
17. He asked your last ship had bow thruster (I replied no), then he asked any big motor which require large current, what was starter type, explain Star Delta starter.
18. Star to Delta starter timer set for 2-3 second &trip motor on starting, what will be reason & how to rectify.



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19. You started one more generator to synchronize, it showing less voltage than normal, how to rectify.
20. Function of AVR, how it works.
21. What is SMS & how it is implemented on ship.
22. MARPOL Annex VI, NOx, which Tier comply on your ship & how.
23. NOx technical file details, what entry from ME fuel pump. If genuine part not supplied, what you do.
24. The scenario you joined ship as 2/E & you find quick closing valve & emergency generator not working & ship will sail after 2 hours, what will your action, what class will do (I couldn't tell regarding condition of class)
25. Then he asks what class surveyor survey on ship
26. How to get IOPP certificate, what survey regarding OWS.
27. If your C/E incapable to operate CO2 system, what will be your action in case of big fire in E/R. (I explained procedure of CO2 flooding.)
28. In last he gave scenario that your ship has deformation on hull & ship 2 days to reach port, what will be your action (I told him its matter of safety of personnel, ship & environment, so inform PDA & Class)  
Then surveyor explain me at this moment Class will declare < Condition of Class > & suggest what will be the action to repair.

Then surveyor declared the Golden word, you have given me everything it's a PASS, & congratulate me, I thank him.

Feedback: - Do revision on Condition of Class.

Surveyor is very kind hearted, polite & helpful, I felt great experience with him.

UMTC - 2613855053  
Shivaji Sir  
Aditya Sir