



# 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: 03 Oct 2023

Surveyor: Mark Lenon

Candidate: Sajith Kumar

Time: 45 MINS – Online class 2 Orals

1. Second Engineer take over & responsibilities.
2. ISM, M/C Survey's, All conventions (MARPOL, Solas Etc)
3. Certificate carried onboard. Specifically asked about LoadLine certificate.
4. Difference between 2 stroke and 4 stroke engines.
5. Scavenging process in 2 stroke and 4 stroke engines.
6. Reasons for high temp in single cylinder and all units.
7. How to check, reasons for high exhaust temperature.
8. How to remove injector, overhaul, test, inspection.
9. Shown two stroke timing diagram and told to explain.
10. Draw card shown and asked to explain.
11. Basic question of T/C and Air Cooler. Choked and indications.
12. Overhauling of 4 stroke single unit. (Decarb)
13. Piston checks, Liner checks, Cylinder Head checks and tests.
14. Fuel oil test and properties. Lube oil test report, BDN content.
15. Fuel oil got water ingress. How, from where etc.
16. Lube oil properties, lab test, water in oil what will happen. (Cold Corrosion)
17. Fire in purifier room, CO2 release, procedure.
18. Re-entry and checks after fire in purifier room.
19. Boiler survey. What checks in survey, safety valve test. Boiler water test.
20. Main switch board safety.
21. Generator Paralleling (specially about synchronoscope position, Why on 11:55 position we are closing breaker)
22. If no voltage what to do.
23. AVR explanation.
24. Emergency generator auto, manual starting. (How starting if blackout happened). Checks on generator panel.
25. Earth Fault, why, what to do if earth fault present.
26. Steering gear checks, tests power failure and alarm check.
27. Refrigeration system explain and safties.
28. Why expansion valve is provided.
29. Leak test and charging of gas.