

Nuv
C / 2
orals

Candidate – S.Ruwantha De Silva

Examiner Name – Capt Sunil Jayaweera

Date – 03/04/2024

Vessel Type – Cement Carrier (Bulk)

Status – Pass

Examiner commenced by asking about previous vessel experience. My last vessel was a cement carrier. So he started asking questions on Cement Carriers / Bulk loading.

- 1.What are the precautions you have to take when loading a cement carrier?
- 2.How do you calculate the maximum loadable quantity on cement carrier?
- 3.What are the factors you taken into account when calculating loadable quantity?
- 4.What is volumetric cargo?
- 5.What is dead weight Cargo?
- 6.You are loading volumetric cargo, how to calculate loadable quantity? Manual calculation full procedure.
- 7.When you are loading high density cargo what are the factors you taken into account?
- 8.Vessel stability behavior when loading high density cargo?
- 9.What is jump loading?
- 10.Vessel stability behavior when doing jump loading?
- 11.How you identify your vessel is capable of doing jump loading?
- 12.What is FSE?
- 13.How you use the FSE for advantage?
- 14.What are the new regulation for bulk carriers?
- 15.What is dynamical separation?
- 16.What happen to Bulk Jupiter?
- 17.What is the difference between COG and COB?
- 18.How to do the short turn?
- 19.What is Paddle wheel effect?
- 20.What is EDD?
- 21.What is Critical Period?

22. What is Critical instance?

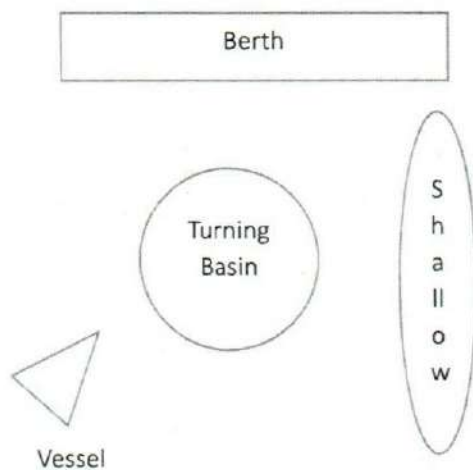
23. Why you proceeding with small trim to dry dock?

24. What is virtual loss of GM?

25. How you minimize the virtual loss of GM?

26. Why you can not entry into dry dock with full ballast?

27. How you berth the vessel in below situation? (Stbd Side Alongside/Wind and current behind)



28. What is SEEMP 1,2,3?

29. What is the new regulation for fireman outfit?

30. What are the type of fireman outfits?

31. How you identify those outfits? (He is asking the specifications of out-fits)

32. What is ESP?

33. How you do a ballast tank inspection?

34. What are the things to check in bell mouth?

I wish you all, GOOD LUCK AND ALL THE VERY BEST!!! My sincere thanks goes to Shane Sir, Capt. Aruna Kothalawala, Capt. Prasad Ranasinghe, Capt. Ranjith Perera, Capt. Kanchana Dolapihilla, Mr. Rupasinghe. and all the other lectures who supported & guidance to achieve this milestone. Special thanks to Salinda Ayya and all my friends for great support from the beginning till the end.

Candidate - B.S Salinda.

Examiner Name- Capt Sunil Jayaweera.

Date- 28/03/2023

Vessel Type- Container

Status- Pass

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Orals

01. Which vessels you have been sailed?

Mostly Container vessels

02. Any incident, accident or casualty happens during this period?

Leaking imdg class 2 tanktainer found at loading port

03. What was the properties of leaking cargo, your suggestion to master as chief off?

● Obtain UN no/ Psn / Vol 2 part 3 Dg List Column 17 for Special properties & Requirement

Expecting answer- Discharge that container

04. Where do you find the Stowage, Segregation Emergency schedules for that container?

in Supplement - Ems spillage schedule

IMDG Vol 1 Chapter 7 / Vol 2 part 3 DG list

column 16a,b - stowage / segregation.

Shipper declaration

MSDS provided

05. If ur a chief off sugession to master, if issue is rectified and now container is not leaking?

Expecting answer - discharge that container. no any control or preventive measures to keep it further onboard.

06. Express pearl full incident?

07. Full Action plan when HNO₃ acid Container leaking heavy during sea passage (no any port agreed to discharge no time to reach port of refuge) your sugession to master.

Exepecting answer-last option, jettision the cargo

08. Scuppers requirment? Load line regulation

09. If master not agreed what is your action? (Can u Override the master)?

My answer was consult DPA.

10. Did you inform DPA with out informing master?

My answer Follw company sms policy. went to next questions.

11. Anchoring 75m Depth what is your sugession to master?

Expecting answer- Focus on Max heaving up power capability of the winch. Anchor + chain weight.

12. Where it mention?

Manufactuer manual

13. How you decide deep water anchoring?

My answer was depths beyond that value, consider maximum heaving up power capeability of winch.

14. How much?

Anchor plus chain, need to mention depth value.

5 t anchor + (27.5 X 4) Schackel = 80m or above

15. Ok your anchor not coming up possibilities?
Expecting answer- Winch load limit exceeded

16. Any Alternate method to recover as fast as possible by using best seaman ship practice?

I have send 3 times out, to find the correct answer, he expecting only one single method, preperation to use one loose mooring line while synchronize the power with other mooring winch.

Pls refer book(The theory and practice of Seaman ship- 11 th edition, by author Graham Danton) Section- Heaving up anchor with no windless power.

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17. What is short turn?

Pls refer shane sir book.

18. Can u Execute Full stern during the short turn?

Yes

19. What is transverse thrust?

20. Why TRS generally recurve?

Expected answers

- Initially west- due to trade wind
- Slightly up to pole ward- due to gyroscopic precession
- Eastward move- due to angular momentum

21. Why TRS not Forming over 25°N in NH?

22. What is doldrum?

23. TRS Avoiding action northern hemisphere?

24. Meaning of Heave to wind?

25. What is Limited vertical wind shear? Why its important?

26. Type of ocean currents?

27. Type of drift current?

28. What is upwelling, gradient, longshore current with examples?

29. What is pressure gradient?

30. How you recognize it on weather map, what is indicate to you?

31. Explain cargo gear registry content?

32. Cargo gear Static, Dynamic Test?

33. What is proof load how to calculate?

34. How you know your Cargo gears not Overloaded?

Expecting Answer- VGM Certificate for particular container

35. Who is responsible for VGM?

Shipper

36. How you know your vessel not overloaded?

Expecting answer- load line compliance

37. how you test the indicator? How often. And Method?

03 months

With class approved condition files

Instruction given in intact stability code.

38. What do you mean by Max Loadable Quantity for container vessel?

39. How you calculate it with out indicator?

40. What is load line restriction & Draft restriction, tell me how you check stresses for each critical point?

(Obtain max permissible displacement from stability booklet, for critical point.) –

(lightship+Constant+Unpumpable ballast+Fuel oil @ particular point+ Fresh Water @ particular point) = Max loadable quantity at critical point

Then check stresses With updated tank

condition status, for each critical point in same manner.

41. what is sea mode and harbour mode?

42. what is stable, unstable, neutral equilibrium?

43. Show me in the given Graph behavior of GM in relation to the Angle of heel for stable vessel rolling?

He provide me a graph to plot GM in relation to Angle of heel.

- Until 15' heel Gm is Constant
- Until DEI Gm will increase at a progressive rate
- After DEI Gm increase rate will be reduced
- After angle of max GZ occure, Gm start to reduced(as COB Can not move further away from center line)

44. What is ESP program which vsl apply?

45. What is EDD program wich vessel apply?

46. What is internal inspection?

Answer in relation to MLC certificate Internal and external audit pattern.

47. How do you check water tightness of hatch cover?

48. Water leaking from hatch cover due to beading damage can you repair it onboard?
Yes (why don't you need to inform class)

49. Repair action as chief officer?

Expected answer- check load distribution on thrust pads adjust those accordingly Purpose not to over stress beading.

● Indentation value of the beading should not exceed 20% of compression value.

Check for permanent set on the rubber.

Check for Rubber channel corrosion and repair with class certified welder.

50. What are the latest amendments to AFS Convention?

Controls on cybutrine biocides additives in paint

51. What is biofouling?

52. What is TBT?

53. Content in CTF?

54. What is AOR? Importance? How to Find the Value and where you can find this value?

In IMBC code appendix 3, cohesive or non cohesive cargo.

Refer shane sir book for test method.

55. What is trimming?

Refer shane sir book for example trimming table calculation.

56. Grain securing methods?

57. How you trim container vessel?

Expecting answer- At the planning stage while preparing stowage plan.

Not like bulk carrier do at final stage using cargo.

in Container vessel mostly use ballast.

58. How you trim Bulk carrier?

Refer shane sir book

59. What is FOC?

60. What is advantage to ship owner under FOC?

Wish you all the **best good** luck!!!

My sincere thanks goes to Sir Shane
Sankarnarayana, Cpt Aruna kothalawela, Cpt
Prasad Ranasinghe, Cpt Ranjith Perera, Cpt
Irash de silva

And all the my lectures in CINEC Campus and
my friends who support me to achieve this goal

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Instruction- Go through Shane sir, Oral
preparation Guid at least 01 time