



PAST PAPERS

<i>Faculty</i>	<i>Department / Section/Division</i>
<i>Not Applicable</i>	<i>Learning Resource Centre</i>

Past Papers

Faculty of maritime Science
Department of Navigation

Navigation Class II

(Orals)

2015-2022

<i>Document Control & Approving Authority</i>		<i>Senior Director – Quality Management & Administration</i>	
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Candidate Name : T. D. Rodrigo

Exam : CLASS II ORALS

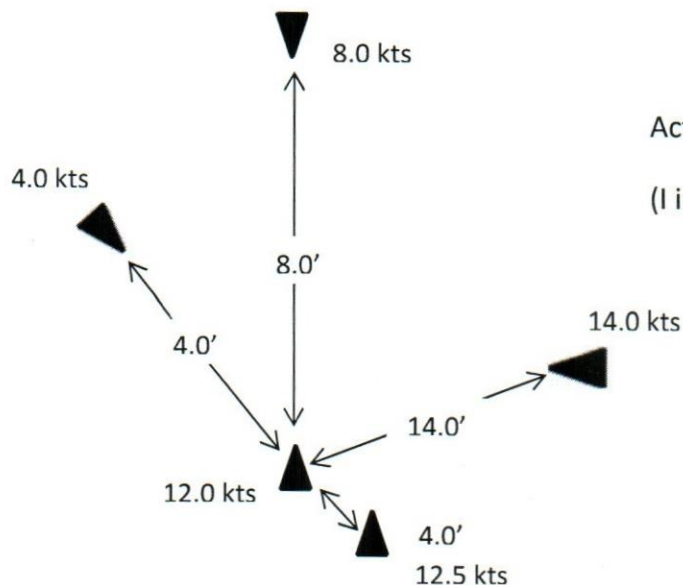
Examiner name : Capt. Sunil Jayaweera

Date : 19.08.2020

Attempt : 1st attempt (Pass)

He checked my Project thoroughly. (I advise you to know your project inside out before going for ORALS. Because the 1st 5-10 questions are going to be from the project)

1. What is UCP 600?
2. How many BOL's will be issued?
3. What is a seaway bill?
4. What are the advantages of seaway bill?
5. What are the disadvantages of bill of ladings?
6. What is Charter party?
7. What is charter party agreement?
8. What are the contents of a charter party agreement?
9. What is the advantage of a charter party agreement?
- 10.



Action in restricted Visibility?

(I included RULE 5,6,7,8 and 19 in my answer)

11. What is Barometric tendency?
12. How do you get the barometric tendency onboard?
13. What is the importance of barometric tendency?
14. What is the difference between frontal depression and a cyclone?
15. How do you take actions to avoid a TRS, When TRS is at a distance of 1000'?
16. What is heave to?
17. There is a cargo 26T and the crane SWL is 25T. Can you load this cargo?
18. How do you test the cargo lifting appliances? (I explained static and dynamic testing)
19. What is proof load?
20. As per the proof load the cargo is within the limits, So how are you going to load the cargo?
(I said we cant load the cargo since the proof load is only for testing the equipment)
21. What is statical stability and dynamical stability?
22. Draw and show me what happens to the COG if you would have decided to load the above cargo as per question 17?
23. How do you carry out the draft survey?
24. How do you take the draft in choppy weather?
25. How do you use the draft tube?
26. What is the quarter mean draft?
27. What is the continental shelf?
28. Tell me about CLC 69 CONVENTION?
29. Tell me about CLC bunker convention?
30. Tell me about safety factors you will consider when doing a tanker operation?
31. What is the purpose of inert gas?
32. Why the tanks are loaded only upto 98%?
33. Where does the regulation regarding the above mentioned?
34. What are the actions to take regarding a collision?

I would like to take this moment to thank all my lecturers and the staff at CINEC, and all my friends who helped me to achieve this goal.

BEST OF LUCK TO ALL!!!!!!!

Oral Examination (Class II) Navigation

Name - Naveen Fernando
Examiner – Capt. Gamini Willson
Date – 30th July 2020
Duration – 1330 – 1500h
Attempt – 1st Attempt
Status - Pass

1. What were the vessels you sailed on?
2. Gas tanker loading procedure?
3. How do you know that cargo(gas)is fully discharged or not??
4. How do you carry out cargo tank inspections?
5. Do you carry out draft surveys on gas tankers?
6. How to take drafts during bad weather?
7. How to use "Draft Tube"?
8. What is Ballast water management?
9. Explain D1 and D2?
- 10.How do you manage rest hours?
- 11.What are the new amendments to SOLAS?
- 12.What are the Elements of ISM?
- 13.What are the certificates required as per ISM?
- 14.What are the Surveys required?
- 15.What is ISPS?
- 16.What is Best Management Practice?
- 17.What is Marpol Annex IV?
- 18.What are the discharge requirements as per Marpol Annex IV?
- 19.What are the special areas under Marpol Annex IV?
- 20.What are the documents/Certificates required as per annex IV?
- 21.How do you manage Garbage onboard?
- 22.What are the entries to be made in garbage record book?
- 23.You engaged in a voyage from srilanka (tropical) to japan (Summer), what are the facts you need to consider when you are loading from srilanka??
- 24.You received a EDI file and When you input it to the computer everything was showing green. How do you check that it is complying with the requirements?

25. Class 6 IMDG container which is not supposed to load under deck was loaded under deck, but it is indicating Green on EDI. From where do you check the relevant requirement?
26. Where do you find information about cargo gear?
27. What are the contents of "Register of lifting appliances and cargo handling gear"?
28. What is "Rigging plan"?
29. Forward compartment is bilged, what are your actions as a chief officer?
30. How do you calculate damage stability?
31. What is damage stability booklet and damage stability plan?
32. How do you measure the water in the cargo hold if the hold is full with containers?
33. How to load grain?
34. Explain the grain criteria?
35. What is the GM required as per IS criteria?
36. Why there are different GM requirements for different type of vessels?
37. What is flag state and port state?
38. What is the most common deficiency code during PSC inspections?
39. What are the other deficiency codes in PSC?

I thank all Cinec Staff and friends who supported me to achieve this goal.

Best of luck.....

NAVIGATION CLASS – II (ORALS)

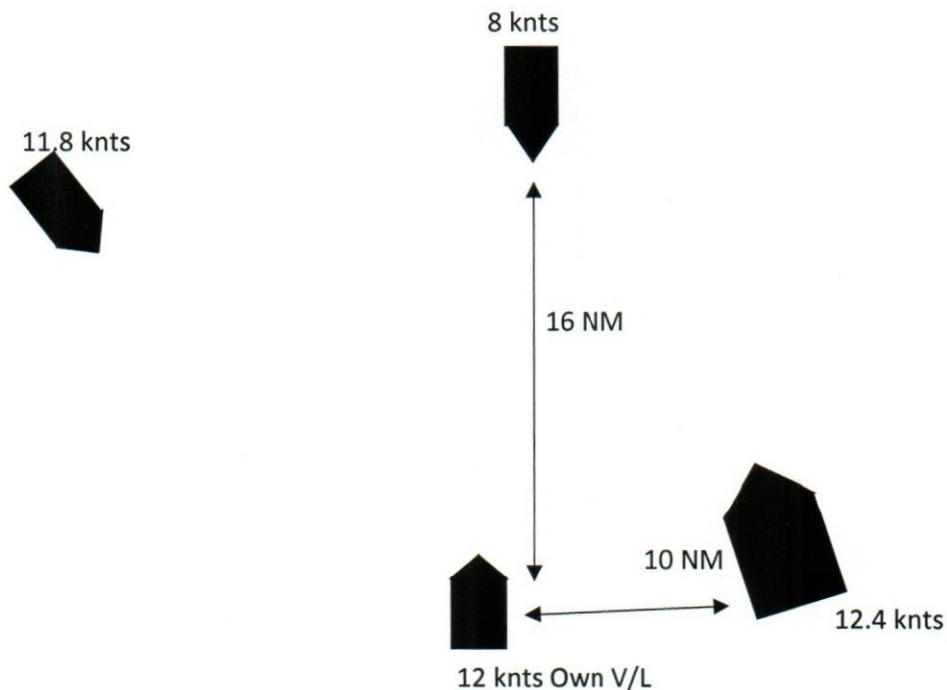
Candidate – Aruna Rajakaruna

Examiner – Capt. Sunil Jayaweera

Date – 13 AUG 2020

Status – Pass

01. He checked my assignment thoroughly. The question no 04 asked from the assignment.
02. What is the incident of MOL Comfort?
03. What is VGM?
04. What are the rules govern to carry cargo?
05. What is Bills of lading? Who is issued bills of lading?
06. How many copies are issued? And to whom you issued?
07. How to identify that bills of lading is original or not?
08. Following situations is gave me related to ROR and action for restricted visibility and clear visibility? (it same as given by examiner)



09. How to determine visibility?
10. Your ships crane SWL 25t. You have to load a container which is 25.3t. How you load this container?
11. What is charter-party? What are the things in charter-party?
12. When you are approaching to a congested anchorage area your engines fails. You are doing 5knts and you have to go another 1NM. What is your action as a master?
13. If it is a clear anchorage area what is your action?
14. What are the factors you consider when deciding anchorage?
15. How to check breaks holding power in mooring winch?
16. What is latched nut and how to keep the clearance?
17. What is heave to?
18. Your vessel is sailed with marginal GM with fully loaded condition. How you monitor the GM during voyage?
19. What are the precautions to be observed during the voyage?
20. What is the purpose of stability booklet?
21. What are the ballast water management standards? What is the connection between D1 and D2?
22. What are the methods used in D2 standards?
23. What is just in time concept?
24. What is SEEMP?
25. What is the sulfur content in-side and out-side ECA areas?
26. Can you carry high sulfur fuel onboard?
27. What are the measures you have to take to carry HSFO?

Important tips.

01. Keep your CDC ready. Make sure all relevant information in good order.
02. Keep your eligibility letter with you.
03. When you preparing for your orals keep contact with class - I and class - III candidates to get clear picture about different examiners favorite areas for that particular time period.
04. Keep more attention on class – I questions.
05. Always keep good open communication with orals candidates to share the information among others.
06. Always refer to IMO conventions, resolutions, codes, amendments to find answers.
07. Make sure through knowledge on ROR and take correct action accordingly and do not change your action. Examiners may insist you to take wrong action in different ways, but do not change your action for any reason.
08. Always give answers in management level. Do not answer for the questions same like class – III.
09. Always be confident. Do not panic. Think you are the chief officer and give answers.

10. Be through on your assignment. Ensure that you're well familiar with assignment.
11. Be aware about latest MSN notices issued by DGMS Sri Lanka. Need only the general idea.
12. Remember always that first impression is the most important.

WISH YOU ALL THE BEST....!!!

My sincerely thanks to, Capt. Krishan Perera, Mr. Shane Sankanarayana, Capt. Aruna Kothalawala, Capt. Prasad Ranasinghe, Mr. Thilak Wickramasinghe, Capt. K.D.U. Dolapihilla, Capt. Ranjith Perera, Mr. Ajith Abesinghe and all dedicated lectures and staff of the navigation department and CINEC library and my friends who support me in various ways.

NAVIGATION CLASS II – ORALS

Candidate – Upul Weerakoon

Examiner – Capt. Upul Peries

Date – 10/02/2020

Status – Pass

(Brief discription of the certain answers are provided with the key words the examiner will be looking at, consider them as a guidance only, & elaborate the answer when you're answering)

1. Checked the assignment (Assignment: USCG Inspections)

Following questions were asked from the project.

- Asian gypsy moth reporting procedure.
- What is NTVRP?
- What do you mean by QI?
- How to contact QI?

2. How do you find the loadable quantity of a vessel?

Vessel going from port A to port B.

Consider the load line zones the vessel will be passing through.

Consider the total Fuel, fresh water, stores, provision to carry.

Subtract the all known weights from the present displacement.

Carry out an initial draft survey to find out the deadweight available.

Calculate the stability condition at departure, during the voyage and arrival.

Consider any draft restrictions.

Once all factors are considered, give the final loadable quantity.

3. How do you carry out a lifeboat drill? And what are the specific items that you will check during the drill?

Solas Chap 3 , Reg 19.3

4. As per Marpol Annex (VI) what are the emissions to atmosphere?

NOX

SOX

CO2

OZONE DEPLETING

VOC (Volatile Organic Compound)

5. How does the vessel contribute to CO2 emission?

CO2 is emitted from the exhaust.

In order to reduce exhaust, we need to reduce the fuel consumption, to achieve this, we can do power management, trim optimization, carrying min ballast, hull cleaning, propeller polishing.

6. What are the tools to measure CO2?

EEDI & EEOI (explain)

7. Can you load Reefer and a DG container together?

Yes, (explain the answer)

8. What are the Surveys for SMC and DOC?

2-3 Years 2nd and 3rd Anniversary

9. What are the certificates under ISM?

DOC (Interim)

DOC (Full term)

SMC (Interim)

SMC (Full term)

10. What is P&I?

(Explain)

11. What is Dynamical separation?

Due to vibrations of the vessel, the tiny particles of the cargo will settle down and water in the cargo will move up to the surface. (Dynamically Separated)

12. What happens to the stability of the vessel due to this factor?

Sloshing effect will be created, liquid in the surface will start to move, causing Free Surface Effect.

13. Give an example of a dynamically separating cargo.

Bauxite

14. What is permeability?

15. What your forward compartment gets bilged, how do you assess this?

Damage stability Booklet

16. As a chief officer how do you prepare a working arrangement for the crew?

As per MLC, name of the arrangement plan is "Shipboard working arrangement Plan"

17. Explain the Ballast water standards?

D1 & D2

18. What is Flag state and RO, and what is the relationship?

19. How do you manage garbage onboard?

20. What records do you log down in garbage record book when incinerating?

21. What is General average?

22. What is Time Charterer?

23. Why do you carry out a survey when your delivering the vessel to a charterer?

24. What is UNCLOS?

United Nations convention on Laws of the Seas, it is introduced in order to prevent territorial disputes among the nations, by giving sea limits.

Territorial sea

Contiguous Zone

EEZ

High seas

25. What are the laws applicable to "Contiguous Zone"?

Custom, Fiscal, Immigration and Sanitary

26. How do you implement Ship Security measures onboard?

Follow ship security plan

27. What are the precautions when carrying grain?

28. What is parametric rolling?

29. How to reduce parametric rolling?

Alteration of course

Speed reduction

Using hydraulic fin stabilizers

30. What happens to stability during parametric rolling?

Loss of GM

31. How to improve stability?

Remove slack tanks

Fill up slack tanks

Fill up DB tanks

Transfer ballast water to DB tanks

If possible transferring cargo down

32. Oil spill onboard, what shall you do as a chief officer?

33. What do you mean by the "Just In Time Concept"?

(Master + Agent + Terminal) discuss the ETA and bring the vessel to berth in exact time without any delays or any unnecessary increase in speed.

Aim is to save fuel. Saving fuel means less pollution.

Energy efficiency.

"I would like to thank all Navigational department staff, Survival Department staff, library staff and all my friends who supported me to achieve this goal"

Wish you all the best!!!

NAVIGATION CLASS II - ORALS

Candidate – H D D Champika

Examiner – Capt. Upul Peries

Date – 17/02/2020

Status - Pass

Initially once you were called to the oral examination, he requires your CDC. Make sure you have your minimum required documents with you. That includes CDC, Passport, Basic Certificates, Advance Certificates and Previous COC. Keep other documents handy in somewhere so that, in the case required you can have them.

After the verifying your sea time and ship type that you have served, he will request your Assignment. Make sure your answers are given with confidence as a chief officer or Master. In front of an examiner be a Chief officer, imagine you are the chief officer of that particular ship.

ASSIGNMENT – IMDG LOADING

1. How do you load IMDG cargo to your ship?

This answer includes from the EDI to a final lashing check of your vessel. DOC checking, IMDG segregation, Stowage requirements, Shippers deceleration, IMDG manifests, Packing Certificates, Placards...etc

2. From which Conventions IMDG code become Mandatory?

From SOLAS and MARPOL annex 3

3. Precautions during loading and IMDG care during passage?

During loading, All IMDG containers must be loaded in accordance with the locations in Manifest which have to be verified by the Chief Officer. All containers must have appropriate placards in the place. Physical condition is to be verified and Container Seal.

During Voyage – Sounding of all cargo holds daily, as per requirement cargo hold ventilation to be carried out, Daily verifying that all the cargo lashings are in tight condition, Record keeping of special IMDG containers or required by the shipper (IMDG reefer)

4. If you have to load IMDG and Reefer together how you load them?

Reefer CTU – a potential source of ignition

As per IMDG code some classes cannot load together or adjacent to a Potential source of ignition. In our case it's a reefer container. This is only for few cargos. These requirements are in the IMDG code Part 1 Stowage – special stowage provisions.

UNCLOS

5. General description of UNCLOS

This answer should include why UNCLOS came into picture, types of maritime zones, what are the jurisdiction coastal state has on each sea limit, what are the rules applicable to a ship beyond high seas?

ECDIS

6. Over-reliance of ECDIS?

Mention about what is ECDIS over-reliance How to mitigate over-reliance of ECDIS.

BIO-FOULING

7. What is Bio Fouling?

Undesirable accumulation of various aquatic organisms (microorganisms, plants, algae and animals) on submerged structures like ships' hulls

Information regarding Bio Fouling Management plan, Bio Fouling record book. Content of Bio Fouling Plan and records to be maintained in the record Book.

CLASS SURVEY

8. Scope of the annual class survey?

1 it should consist of a certificate examination, a visual examination of a sufficient extent of the ship and its equipment, and certain tests to confirm that their condition is being properly maintained;

2 it should also include a visual examination to confirm that no unapproved modifications have been made to the ship and its equipment;

3 the content of each annual survey is given in the respective guidelines; the thoroughness and stringency of the survey should depend upon the condition of the ship and its equipment; and

4 should any doubt arise as to the maintenance of the condition of the ship or its equipment, further examination and testing should be conducted as considered necessary.

FATIGUE

9. How to mitigate Fatigue Onboard

10. As a crew member How to you ensure that you will not be subjected to Fatigue?

11. A crew member comes to you his grievances, how do you approach and your actions??

Your Answers must be in accordance with MSC.1/Circ1598 - GUIDELINES ON FATIGUE.

ENCLOSED SPACE ENTRY PROCEDURE

12. How to enter in to an enclosed space?

An enclosed space is a space which is not used for day to day activity and which has any of the following characteristics:

1. Limited opening for entry and exit

2. Inadequate ventilation

3. Is not designed for continuous worker occupancy

The presence of any one of the characteristics as stated above can make space an enclosed space. A ship-specific list should be available to identify all enclosed spaces onboard and should be displayed in public spaces. The most common confined spaces onboard ships are cargo holds,

chain lockers, cofferdams, water tanks, void spaces, duct keels, fuel tanks, engine crankcases, exhaust and scavenge receiver.

Process-

- Risk assessment to be carried out by a competent officer
- Tool box meeting
- Tank testing
- Permit to work
- Proper signs and Men at work
- Duty officer has to be informed before entering the enclosed space
- Effective communication
- Proper rescue equipment stands by
- Enclosed space entry

ISPS

13. What are the records to keep as per ISPS code?

ISPS Certificate

SSAS test records

Gangway checklist

Inventory of Security Equipments

Drills and Training

Any security Breaches

Deceleration of Security reports

Audit reports

Annul reviews of SSP.

SEAWORTHINESS

14. What is seaworthiness and Where it is mentioned?

Hague Visby Rules

the vessel "must have that degree of fitness which an ordinary, careful and prudent owner would require his vessel to have, having regard to all the probable perils of the sea".

GARBAGE MANAGEMENT

15. How do you ensure that your newly joined ship is complying with the Garbage Management plan?

Mention about Collection of Garbage, Segregations of Garbage, Storing of Garbage, Processing of Garbage and Record Keeping of garbage. If I see all above is in a proper system that means this ship is complying with the Garbage management Plan.

"I thank All navigational department staff, Survival Department staff, CINEC library and All my friends who supported me to achieve this goal"

Wish you all very best!!!

K.Nadeeshan Ranaweera

Examiner : capt.Gamini Wilson

1st attempt

Status :Fail

- 1.what are the precautions when you loading coal ?
- 2.what is SF ?
- 3.What is spontaneous combustion?
- 4.What is moisture content?
- 5.What is load density ?
- 6.what is TML ?
- 7.What is FMP ?
- 8.What is stowage plan ? draw & show me
- 9.Cargo figures are different with terminal, what you will do?
- 10.What is LOP?
- 11.how do you carry out draught survey ? there are many cross questions
- 12.How do you check the density?
- 13.What is perpendicular?
- 14.What is quarter mean draught?
- 15.why you add 1st trim correction & 2nd trim corrections?
- 16.What is the new ammendments to MARPOL annex vi in 2020?
- 17.What are the new amendmets to COLREG ?
- 18.What important to yo as a duty officer?
- 19.



Your vessel "A"

How do you alter course?

20. content of shippers declarations ?

21. Ballast water requirements?

22. What is dilution method?

23. How do you carry out dilution method?

24. As a chief officer what is your responsibility about Ballast water?

25. Certificates under MARPOL ?

26. What is fitness certificate ?

27. What is DOC ?

28. What is GMP ?

29. Who approved GMP ?

30. How do you implement ISM onboard as a c/o ?

31. What is DOC /SMC ?

32. What are the policies ?

33. You have to load $MC > TML$ cargo , are you going to load ?

34. What is stable, unstable, neutral equilibrium ?

35. What is TPC, MCTC ?

36. What is dynamical stability ?

37. What is static stability ?

38. What is metacenter , GZ ?

39. What is angle of loll ?

40. how do you correct it ?

18.What is the purpose of RECOGNIZE ORGANIZATION ?

19.What is fatigue ?

20.How do you manage fatigue as a c/o ?

21.How do you maintain your fatigue as a seafarer ?

22.what should include in a abandon ship drill ?

23.How do you make sure onboard LSA's are maintained properly ?

24.What is official charts ?

25.What is your action when you have ecdis anomalies ?

26.What are the limitations on RCDS mode ?

27.Alarm management ?

When I receive a alarm first I will read the alarm

Then silent the alarm,

Take appropriate action,

When complete the action ,Then acknowledge the alarm

WISH YOU ALL THE BEST !!!!!!!

MY special thanks to Capt. Aruna kothalawala,Shane sir,Capt.Krishan Perera ,and all dedicated lectures, staff of the CINEC navigation department and My friends Kulunu Sathkumara, Kasun polgampola,Kavindra hewage,Gayan Thelijjagoda,Roscoe D roziro,Devaka Prabash, & capt.Harsha Jayaweera ,C/Off Nuwan kahandawala, Achintha Jayasekara & all my friends who support me in various ways.

Class II Oral Examination

Candidate: Devaka Prabash Hewawellala

Examiner : Capt. Upul Peris

Status: Pass

1st Attempt: Fail

26th August 2019

Examiner checked my assignment.

1. How do you plan a drill onboard ?
2. What should be included and checked when conducting a fire drill ?
(Examiner was not satisfied with the answer)
3. What should be included and checked when conducting an abandon-ship drill? (Examiner was not satisfied with the answer)
4. How do you discharge garbage at sea?
5. How do you discharge food waste?
6. What is Unclosed ?
7. What is the Territorial waters ?
8. Oil spill on deck during bunkering action by you as a chief officer?
9. How do you manage Risk on-board?
10. How do you manage garbage on board as a chief officer ?
11. What is MARPOL Annex VI?
12. What are the pollutants related to MARPOL Annex VI?
14. What are the ECA areas for annex VI
15. What is a parametric rolling?
16. How does the parametric rolling effect to the ship stability? (Examiner was not satisfied with the answer)

2nd Attempt: Pass

02nd Oct 2019

1. How does the parametric rolling effect to the ship stability?
2. What can be done adjust the GM ?
3. What are the action do you take avoid parametric rolling ?
4. What should be included and checked when conducting a fire drill ?(he required as per SOLAS CH III, Reg 19. 3.4)
5. What should be included and checked when conducting an abandon-ship drill? (he required as per SOLAS CH III, Reg 19. 3.3)
6. What is the weather routing ?
7. As a chief officer, How do you reduce CO2 emission?
8. What is the SEEMP ?
9. As a chief officer what are the records do you maintain as per SEEMP?
10. What is the full procedure of calculating the maximum loadable quantity?
11. What is the dynamical separation?
12. What is the impact on the ship due to dynamical separation? Explain in term of Stability.
13. How you identify the cargo is dynamical separation cargo or not ?
14. What are the Statutory certificates?
15. What are the Statutory certificates under ISM??
16. How often will the ISM inspections be conducted?
17. What is the flag state?
18. What are the certificates under flag state?
19. How do you prepare your ship for Safety equipment survey?
20. What are the documents required for IMDG cargo loading?
21. You observe an IMDG spillage on-board during the vessel in the berth. What is

your action?

22. What is nearest land?
23. What is the Special area ?
24. What is internal audit ?
25. What is external audit ?
26. What is the P&I Club ?
27. What P&I insurance covers ?
28. What is the base line ?
29. What is the high seas ?
30. what is the special area?
31. What are the amendment for marpol annex VI ?
32. How you do the work arrangement on board ?
33. What document base on make a onboard work arrangement Plan?
34. How do you carry out ballast tank inspections full procedure ?

WISH YOU ALL THE BEST...!!!

My sincerely thanks to Capt. Krishan, Shane Sir, Capt. Kothalawala, and all dedicated lectures, staff of the CINEC navigation department, CINEC Library and special thanks to Capt. Jayamini, Chief Officer Isuru, Deepal Kulathunga, Samurdhi Maheeshan, Thilina Tissera, Keshawa Liyange, Roscoe d' Rozario, Heshan maduka. and all my friends who support me in various ways.



CLASS 2 DECK ORALS

DATE: 09.11.2016 / 29.11.2016

EXAMINER: CAPT. M.U.I PEIRIS (DAY 1) / CAPT. GAMINI WILSON (DAY 2)

CANDIDATE: A.A.C.D RANASINGHE



DAY 1:

1. What are the new parts to the COLREG? Name each part.
2. Definition of restricted visibility.
3. What are the actions that you should not take in restricted visibility?
4. What is the fog signal of a vessel >100m at anchor?
5. How do you know that you are an overtaking vessel?
6. What documents does the shipper have to provide the vessel before loading DG cargo?
7. What are the contents of a DG Declaration?
8. What are the contents of a DG manifest? What is an important feature of the DG manifest?
9. What considerations to be taken before loading a reefer?
10. Can you load DG & reefer together? What do you consider?
11. What is edible cargo?
12. Name all garbage categories.
13. How do you dispose of garbage (Food waste not commuted or grounded)?
14. How do you measure "Nearest Land"?
15. How do you decide whether food waste is commuted or grounded?

16. How do you dispose of cooking oil?
17. Where should garbage be stored onboard?
18. Who prepares the Garbage Management Plan?
19. Explain about SEEMP
20. What are C/O contributions to maintaining SEEMP onboard?
21. Explain EEDI/EEOI
22. What is the regulation to have EEDI onboard for existing ships?
23. Explain Synchronous Rolling. What are the sea conditions required for Synchronous Rolling?
24. Explain Parametric Rolling.
25. Explain how you would load a ship to minimize effects of Parametric Rolling.
26. What regulation govern shipping in Sri Lanka?
27. What regulation govern STCW requirement in Sri Lanka?
28. If a new regulation has come into effect, how is published?
29. What is the latest MSN issued by Sri Lanka?
30. What is List?
31. What is Angle of Loll?
32. Practically how would you identify if the vessel is listed or at an angle of loll?
33. How would you prepare for a class survey?
34. What is the scope of the survey?
35. What is the difference between statutory certificate and class certificate?

36. What is HSSC?
37. What are the inspections carried out under HSSC?
38. What instructions and orders will you give officers and crew before dry docking?
39. What happens to GM while dry docking?
40. When will vessel experience maximum Virtual Loss of GM?
41. What are the control and preventive measures under MARPOL?
42. As C/O how will you maintain ISPS onboard?
43. Will you show the SSP if Port State Control Officer asks from you?
44. How many parts to the SSP?
45. How often Passenger Ship Safety Certificate is renewed?
46. Master is incapacitated and cannot carry out his duties, where is it mentioned that you as C/O can take over the command?
47. What conventions are in place regarding compensation?
48. Details of CSM.
49. Where do you log down maintenance done to cargo gear?
50. How do you update ECDIS?
51. How will you show a PSC Officer that all your charts for the current voyage are official and up to date?
52. How will you know what is your primary source of navigation on board?
53. How is it mentioned in the certificate?
54. What is UNCLOS?
55. What are the Jurisdictional Zones under UNCLOS?

DAY 2

1. Your sidelight is damaged by hitting an obstruction. As C/O how will you go about repairing this? (Full details including technical info)
2. Explain about HSSC.
3. What are statutory certificates. Name them.
4. What is Minimum Safe Manning Certificate.
5. Can you sail with less crew than mentioned in the Minimum Safe Manning Certificate?
6. What is the meaning of an exemption certificate?
7. How will you prepare for a load line survey?
8. What are checks and inspection on hatch covers?
9. If 25% of cleats are damaged during a PSC inspection, what will happen?(Detainable Deficiency) What are actions you must take?
10. What is Non-Conformity , Major Non-Conformity?
11. On a bulk carrier what are the critical areas that you must check?
12. What is Enhanced Survey Programme? How often is it carried out?
13. Can a vessel have multiple loadlines?
14. Explain Type A Vessel & Type B Vessel with respect to Loadlines.
15. You are carrying paper pulp. You get bilge alarm on the bridge. What are you actions?
16. Cargo hold is half full of water even after you have pumped out the bilges. What is the reasons? What are your actions?
17. What are watertight openings and what are weather tight openings? Give examples of weather tight openings.
18. What is Reserve Buoyancy?
19. What is Deadweight?

20. Explain Marpol Annex VI Regulation.
21. What are the Drill requirements?
22. Explain the Free Fall Lifeboat Launching Procedure & frequency.
(Explain about Simulated Means as well)
23. How do you perform a simulated launch?
24. What are anchor lights of fishing vessel?
25. Technical details of day shapes as per Colreg.
26. How will you know that the ECDIS on board is an approved one?
27. How will you test your stability computer?
28. How often you must test the stability computer?
29. Explain about Underwriters, P&I Clubs & Cargo Insurers.
30. What claims does P&I Clubs cover?
31. What is Cargo Securing Manual?
32. Does every ship need to have a CSM?
33. Explain the procedure to dry dock with cargo onboard.
34. You are on anchor watch in a very busy port in Japan. At around 0430 you hear a large bang in the forward area. Another vessel has collided with your vessel. Explain you actions.

Would like to take this opportunity to thank all my dearest lectures and all my friends for all your help and support. **Advice for future candidates: Read the book 'PREPARATION FOR ORAL EXAMINATIONS – CHIEF OFFICERS' at least two to three times before you apply or go for orals. This book is very informative. This book is guaranteed to put you on track to a successful oral preparation. Be Positive, answer confidently and to the point. Good Luck Mates!**

oral txt

EXAMINER : capt.S.M.S.Bandara

CANDIDATE : M.H.M.Rifkhan

CLASS II ORALS, 01 SEPT 2016

- 1) 50000T bulk cargo (+ or - 10%) how to calculate whether you can take this cargo or not?
- 2) Loading procedure?
- 3) what are the instructions you will give to OOW?
- 4) your OOW informing you, the observed draft is more than the calculated drafts in sequence plan
what can be the reason?
- 5) what is the action in this situation?
- 6) If ballasting cannot cope up with loading rate what action?
can you stop cargo? (yes it is agreed in the sequence plan)
- 7) What are the contents of loading sequence plan?
what is most important?
- 8) What are the SF/BM limits?
- 9) How much you will keep SF/BM?
- 10) You are to load 40000T steel coil and bars how to check whether you can take this cargo?
- 11) How to carry out loading? (say about load density in lower hold and tween decks)
- 12) Where will you find load density?
- 13) You are to carry some IMSBC cargo what are the documents reqd? information reqd?
- 14) How will you prepare for loadline survey? (say about any condition imposed)
- 15) How to prepare for enclosed space entry? (copy of enclosed space entry permit kept
on bridge for duty officer)
- 16) How to carry out tank inspection? and how often? (as per PMS)
- 17) What are the things you will check in tank inspection?
- 18) How to carry out anchoring as ch/officer? (anchor plan discuss with master)
- 19) How do you know anchor is brought up?
- 20) How to carry out heavy weather anchoring as ch/officer?
- 21) You have a fresh cadet for fwd anchor station? (familiarization, training)
- 22) You made a mistake master is after you. now you are doing your job allright but
master is still after you. what is your action?
- 23) Your Bosun not listening to you but he is capable what is the action?
- 24) What is statical stability and dynamical stability?
- 25) What is damage stability and damage control plan?
- 26) you are on bridge watch, there is a TRS warning close to Taiwan strait
what is the action as ch/officer? (plotting TRS)
- 27) Heavy weather preparation?
- 28) How to prepare lifeline in heavy weather?
- 29) STCW amendments?
- 30) SOLAS amendments?
- 31) What is flag state?
- 32) What is port state?

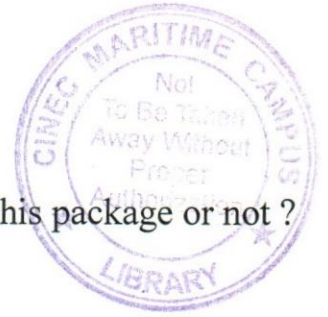
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- 33)How to implement ISM on a new vessel to company?
- 34)For this new vessel DOC and ISM certificates, how issued and for how long?
- 35)How will you carry out Garbage management
- 36)What is Static electricity?
- 37)What is Inert gas?
- 38)What is Antifouling convention?
- 39)C0sta concordia incident and what is the out come?
- 40)ECDIS performance standards?
- 41)ECDIS carriage requirement time table summary (2016,2017,2018)
- 42)ECDIS carriage requirement for a particular vessel? (back up arrangements)
{ex; two ECDIS,one ECDIS and paper charts,one ECDIS and RCDS,one ECDIS and RCDS using ENC}
with individual power supply
- 43)How to check the accuracy of stability computer?

I WOULD LIKE TO THANK ALL THE LECTURERS AT CINEC AND MY BATCH MATES.
WITHOUT THEM IT IS IMPOSSIBLE.

THANK YOU..... Mohamed Rifkhan

Examiner : Capt SMS Bandara
 Candidate : P.D.C.Jayawickrama.
 CLASS II 26 July 2016



- 1) 50000 bulk + or - 10% how to calculate whether you can take this package or not ?
- 2) Loading procedure ?
- 3) What are the instructions that you will give to OOW?
- 4) 3 Loaders with fixed rate , your ballast P/O rate is slow what action ?
- 5) How to deal with that situation ?
- 6) Some IMDG containers how to load ?
- 7) what are the documents given by shipper ?
- 8) If you get some documents short from shipper what is your action ?
- 9) You have a explosive cargo package how to load ?
- 10) What are the log entries ?

- 11) How you will secure a package ?
- 12) How do you know how many securing equipment you need ?
- 13) Do you need approval for your cargo securing manual ?
- 14) How do you order lashing materials for your ship ?
- 15) what are the maintenance done on cargo securing manual ?
- 16) Where you record it ?
- 17) How you will prepare for Load line survey ?
- 18) What is ISM / SMS ?
- 19) TRS visual signs ?
- 20) What is ship registry ?

- 21) What is Class ?
- 22) Your bosun not listening to you ?
- 23) How many pilmsol marks is there?
- 24) Tory Caniyon incident ?
- 25) STCW AMENDMENTS ?
- 26) SOLAS AMENDMENTS ?
- 27) GROSS MASS when it was implemented ?
- 28) What is Damage stability ?
- 29) Hull breach 3# what action ?
- 30) While loading List ?

- 31) What are the possibilities of the list ?
- 32) How a ship will go to angle of loll ?
- 33) Static stability ?
- 34) Where it is applicable ?

- 35) Dynamic stability ?
- 36) Anchor Draging Ch. Off on bridge what action ?
- 37) Faulty fire alarm 04:30 what action ?
- 38) After 4 , 5 hrs again fire alarm now what action ?
- 39) No spare parts what action ?
- 40) What are the log entries ?

- 41) Fresh cadet you are taking him to hatch what instructions that you will give him?
- 42) New crew familiarization ?
- 43) What Anti fouling you will apply ?
- 44) ECDIS carriage requirements ?
- 45) Enc carriage requirements ?
- 46) What is static electricity ?



I Take this Opportunity to Thanks all the Lectures at CINEC & my batch mates without them it was impossible .

GOOD LUCK.



Oral examination questions (OOW 500GT or more)

Examiner: Capt. S.P. Arampath

Candidate: A.A.Prabash Rangana

1. What are the vessels you have sailed and where have you been trading?
2. You are 3rd officer on a gear vessel. During your watch cranes are being carried out load test.SWL 15T.What are the precautions you are taking?
3. You are on a bulk carrier. Loading operation is being carried out exactly as per the cargo plan. The draft should be 6m at fwd as per the plan but showing 5m.No list. What is the reason?
4. What are list, heel and sagging? (Once I answered to above question that list, heel, sagging, inappropriate ballasting and improper distribution of cargo could affect above situation to occur then examiner asked me this question and then examiner explained me above factors were not affecting to previous question and loading was being carried out exactly as per the plan)
5. What is visibility? What are the factors affecting visibility? You are proceeding through Singapore straight and VTIS is asking the visibility. How do you determine visibility? What are the instruments you have onboard to find out the occurrence of mist, fog?
6. How do you find out the occurrence of mist, fog by using hygrometer?
7. What are the instruments you have onboard to receive weather information?
8. Explain look out? What is meant by all available means and prevailing conditions?
9. What are the limitations of radar? What are blind sector and shadow sector?
10. Why do you maintain a look out?
11. What is meant by long range scanning?
12. What are the actions, you are taking in these situations?

(A)In restricted visibility

CPA=0, Brg=3pt



CPA=0, Brg=4pt

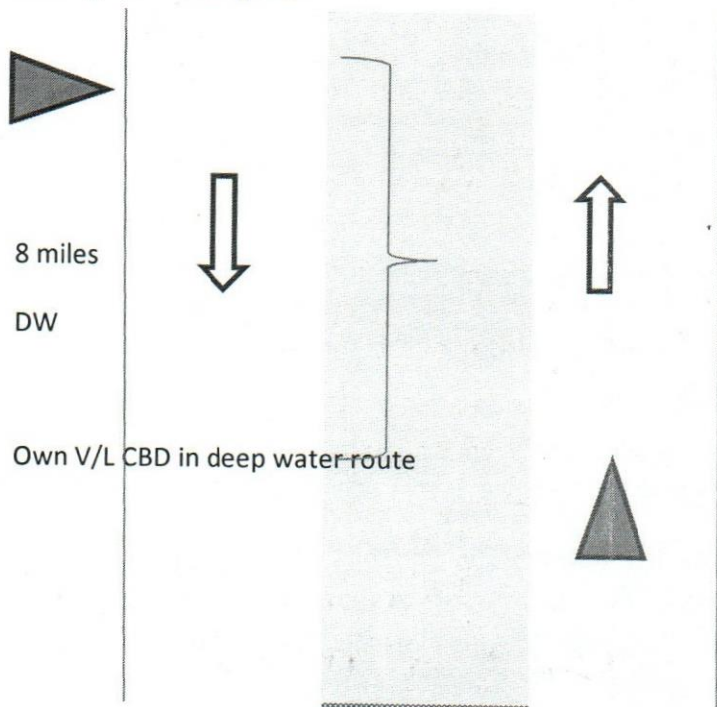


Own V/L



(B) In TSS

Fishing V/L crossing TSS



(C) In restricted visibility

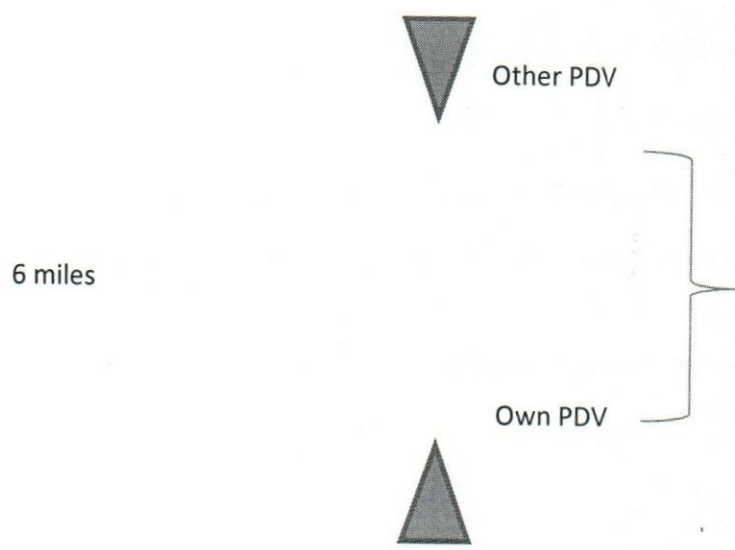
Fishing V/L



Own V/L CBD



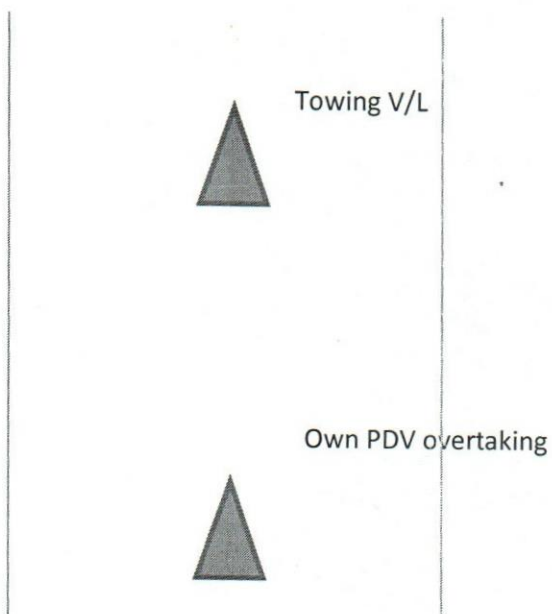
(D) In open sea and in good visibility



13. There is a vessel approaching right ahead of you at deep sea. What do you do?

14. How much do you alter your course? (ARPA is not working; no RADAR plotting sheets are available)

(E) In narrow channel

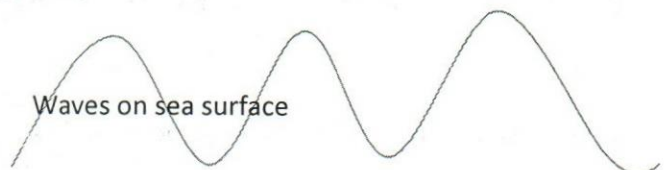


15. You are sailing on a container vessel at 25 knots in congested water. What is the speed you would proceed?
16. What the factors to proceed at a safe speed?
17. What is the best action to avoid a risk of collision?
18. In restricted visibility what are the fog signals of a vessel engaged in fishing and a towing vessel?
19. You are the 3rd officer on a container vessel proceeding at sea with the presence of master on bridge on your watch. What do you do?
20. What are the colour coding of foam, water, dry powder, co2 and dry chemical extinguishers?
21. How do you maintain them?
22. How to test smoke and heat detectors?
23. You are going to Norway. Temperature is -18°C and master asks you that portable fire extinguishers can be used in that temperature. What are you going to say and why?
24. You are the chief officer on a bulk carrier of less than 3000gt. How do you load coal?
25. How do you know that the vessel is seaworthy after loading?
26. From where do you find stability criteria?
27. You receive a tsunami warning at deep sea. What is your action?
28. What is cold work?
29. What is hot work?
30. What will be changing in radar when range is changed?
31. Where is antifouling paint applying on?
32. What is GMDSS and what is the concept behind it?
33. What is GMDSS EQUIPMENT?
34. What is the name of satellites using in GMDSS?
35. What are the amendments of IMDG code 2014?
36. How to report new dangers? Where is the format given?
37. You are a second officer on a bulk carrier. During x'mas day master asks you to order publications required for next voyage. What are those publications?

38. You received all publications except Nautical Almanac. What are you going to do?
39. What is meant by the value given with the $-/+$ sign in daily pages along with planets? (Magnitude)
40. What is the brightest planet as per the Nautical Almanac?
41. What is LMT? What is meant by LMT not the definition? What is the time given as LMT? (Still don't know the exact answer what examiner wanted and didn't explain the answer)
42. What are sun rise and sun set?
43. How to calculate sun set and sun rise?
44. You are second officer on a bulk carrier with 18m draft. Your next voyage is Colombo to Japan through Singapore straight. Plan a passage.
45. What is the important publication to refer when planning the passage through Singapore straight? (Routine guide)
46. Can navigate on routine guide?
47. How to insert WP on electronic charts?
48. How to find out whether you are using official electronic chart?
49. If electronic charts are unofficial what are you going to do?
50. How to update electronic charts?
51. Now you have planned the passage on ECDIS. How to know your passage is safe?
52. Passage has been planned on ECDIS and the vessel is about to leave. Master receives new updates for electronic charts now. What are you going to do now?
53. What is meant by RR given in Beaufort scale? (Checking the Beaufort scale given in bridge log book was not enough)
54. Wind is blowing over sea surface. What will happen?
55. Wind is blowing from west to east (westerly wind) and current also passing from west to east (east current). What will happen to waves on sea surface?

→ Wind

→ Current



CHIEF MATE ORAL EXAMINATION

25. Standard items? Repair items
26. Contents of Rigging plan?
27. Contents of shell expansion plan? Explain about Strakes arrangement and names of them?
28. How to locate the position of a damage shell plate & how to order?
29. What is antifouling paint? New methods of anti fouling? How many coats of antifouling
30. Which type of paint are you going to apply for boot top area
31. How to prepare hull surface for paint on dry dock
32. How to remove barnacles from the hull
33. SOLAS & STCW new amendments? Full details
34. New rest hour regulations?
35. How will you monitor that you are full filling the crew rest hours?
36. New drug & Alcohol limits
37. How to prepare the vessel for load line survey?
38. Why you need a loadicator onboard? How to test it?
39. Marpol Annexes?
40. Garbage discharging criteria? How to find the distance from nearest land?
41. Sewage discharging criteria?
42. Contents of garbage management plan?
43. ECA areas & limits?
44. What do you mean by Tier II , Tier III
45. What is SEEMP, EEDI?
46. What are the documents & certificates under marpol Annex VI
47. What is paint manual ? contents of it?
48. What is pooping & broaching
49. How to use trimming tables?
50. What is in water survey? Requirements for in water Survey? What is the difference of millimeter & micrometer?
51. How to find GM quickly ? What is formula for rolling period?
52. What is DOA? Who is issuing it? Can you grain load without DOA?



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Thanks !!! to All the Lectures of Cinec and Friends to Help me to Achieve this Goal.....

Special Thanks !!! to Shane Sankaranarayana Sir and Abeynayaka Sir

CLASS II ORAL EXAMINATION-DECK

Examiner: Capt. S.M.S. Bandara

Candidate: W.A.S. Fernando

27th Sep 2016

1. How to calculate whether you can take 60,000t of bulk cargo to your vessel?
2. Loading procedure and what are the contents of a loading sequence plan?
3. What are the hazardous of coal?
4. What are the instructions that you will give to your OOW?
5. How do you know whether terminal exceeding loading rate?
6. What is your action if your de-ballasting rate is slow?
7. While loading a vessel listed to one side what is your action and what are the possibilities of the List?
8. How do you prepare loading plan for loading steel coils and steel bars on a general cargo vessel which having twin deck?
9. How do you prepare a loading plan for a Tanker?
10. How to carry out a draught survey?
11. How do you prepare your vessel for Load Line survey?
12. How do you check accuracy of a loadicator?
13. What is your action on receiving a TRS warning while you are on a navigation watch?
14. What is static stability and dynamic stability?
15. What is damage stability and importance of it?
16. What is your action if your Bosun not listening to you?
17. What is flag state and port state?
18. What are the entries you enter in OLB?
19. What are the new amendments to SOLAS?
20. What are the new amendments to STCW?
21. What are the new regulations for rest hours?
22. What are the new amendments to MARPOL?
23. What is the action when a man overboard?
24. How do you know the anchor is brought up?
25. How you prepare your vessel for dry docking?
26. What is ILO, MLC 2006 and what are the benefits for seafarers under MLC 2006?
27. What anti-fouling allowed to apply on a vessel?
28. Explain Arrival procedure of a tanker for a terminal for loading?
29. What are the duties of a Chief Officer in bunkering?
30. What is the action if any oil spill during bunkering?
31. What is the latest incident on passenger vessel and what are the outcome of it?
32. What is static electricity?
33. What is purging?
34. How do you inspect a tank and what are you going to check in a tank?
35. Where you find any information of cargo lifting gear on your vessel?
36. How do you make a swinging circle?
37. How many Load Line marks can be on a vessel?

I would like to thanks the Lectures at CINEC and my batch mates.

Oral Examination Questions

Date: 09/09/2016

Examiner: Capt. M.U.I. Peiris

Candidate: Onila Abeywickrama

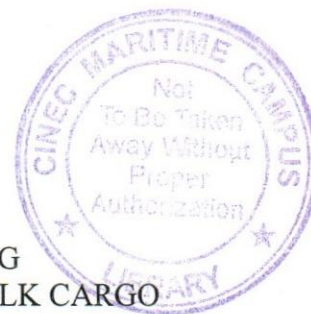
1. You are on a Bulk carrier, and you are instructed to load 50000 (T) of cargo (+/- 10%), as your next shipment. How do you plan/ calculate for the max intake and go about it?
(There's a draft restriction @ the port of loading and the port of discharge as well)
2. You are on a container vessel, how do you load IMDG cargo? What are the precautions?
How will you instruct your duty officers?
3. What is DOC? (Full description and the contents)
4. How do you refer the IMDG code? What are the volumes?
Which volume contains the DG list?
5. How do you tackle emergencies with respect to IMDG cargo? (Full details of EMS & MFAG and how to refer)
6. Grain loading criteria?
7. What can be done if the vessel is not complying with these criteria?
8. What is angle of Repose?
9. What is synchronized rolling & Parametric rolling?
10. Measures to minimize the effects of parametric rolling? (Kindly refer the supplementary assignment I have done on the subject matter at my personal blog, <http://oshamarine.blogspot.com/>)
11. What are MARPOL Annex V regulations?
12. How do you comply with the distance requirement under this regulation? (Kindly refer the supplementary assignment I have done on the subject matter at my personal blog, <http://oshamarine.blogspot.com/>)
13. What docs are required under MARPOL annex V?
14. Certificates required under MARPOL annex VI?
15. What is EEDI?
16. What are the records maintained by Ch. Off, related to SEEMP?
17. What are the latest MARPOL amendments? (Kindly refer the action dates in IMO web site before you appear for the exam, and be thorough with the latest amendments for all conventions, since it's favorite question of many examiners)

- +
18. What was the latest amendment which affected many conventions such as SOLAS, MARPOL, and STCW etc.? (Mandatory audit scheme)
 19. What is UNCLOS?
 20. What are territorial waters?
 21. What jurisdiction applies to when navigating in territorial waters & how do you navigate in it?
 22. What is EEZ?
 23. What are the new rest hour regulations under STCW?
 24. Latest STCW regulations?
 25. New D& A limits?
 26. What publication is available on board with respect to ship sanitation?
 27. What is the cert related to ship sanitation?
 28. Validity of this cert and who issues this?
 29. Which regulation governs this
 30. What the testing methods for FW?
 31. What annexes are ratified by Sri Lanka?
 32. What is purging?
 33. Gas freeing?
 34. What is a PV valve?
 35. What maintenance is carried out on PV valves and the frequency?
 36. How do you identify a leak in a PV valve?
 37. Maintenance of windlass?
 38. Maintenance of cargo gear, where do you rerecord it?
 39. Surveys on cargo gear?
 40. What is proof load test, and criteria followed while doing the test
 41. Which regulation governs the register of lifting appliances and cargo gear?(C152 - Occupational Safety and Health (Dock Work) Convention, 1979)
 42. Discharging criteria as per annex I?
 43. Special areas under annex I?
 44. What do you record in the oil record book & what part applies to a tanker

Capt. S.M.S.Bandara & Capt. Wilson

Candidate : Chanminda Mudunpitage

Date : 08 june 2016



- 1) HOW TO LOAD 50000 BULK 10% MOLO.
- 2) HOW TO PREPARE LOADING PLAN FOR THAT 50000 BULK.
- 3) WHAT HAPPEN WHEN 1 LOADER IS BREAK DOWN.
- 4) WHAT ARE INSTRUCTIONS GIVEN DUTY OFFICER WHEN OADING
- 5) WHAT AREE THE PRECAUTIONS YOU TAKE WHEN LOADING BULK CARGO
- 6) WHAT IS DAMAGE STABILITY
- 7) WHAT IS STATICAL STABILITY
- 8) WHAT IS DYNAMICAL STABILITY
- 9) WHAT IS THE LIMIT OF SF/BF
- 10) WHAT IS ISM – EXPLAIN CONVECTION
- 11) WHAT IS DUTY OF CO WHEN BUNKERING
- 12) WHAT ARE THE DUTIES OF CH/OF WHEN IN WATER SURVEY
- 13) WHAT IS POLAR CODE
- 14) WHAT DO YOU DO WHEN ANCHOR IS DRAGGING AS CH/OF (GO TO ANCHOR STATION)
- 15) HOW OFTEN CHECK BALLAST TANK (ACCORDING PMS WE CAN FIND OUT)
- 16) WHAT ARE THE DOCUMENTS REGARDING CARGO LIFTIG APPLIANCES, WHAT ARE CONTENTS
- 17) WHAT ARE REQUIREMENTS FOR ECDIS
- 18) WHAT NEW DRILLS AS PER SOLAS
- 19) WHAT IS PURGING
- 20) HOW TO LOAD IMDG
- 21) WHAT ARE THE REQUIRED DOCUMENTS
- 22) WHAT ARE THE CONTENTS OF THE DAMAGE STABILITY BOOKLET
- 23) NEW AMMENDMENTS OF STCW
- 24) WHAT IS ANTIFOULING SYSTEM
- 25) WHAT IS ANGLE LOLL
- 26) WHAT IS ANGLE OF REPOSE
- 27) WHAT PURPOSE AOR
- 28) WHAT IS THE PATH OF TRS
- 29) HOW YOU KNOW ANCHOR IS BROUGHT UP
- 30) WHAT ARE THE ADVISES YOU GIVE TO FRESH CADET IN MOORING STATION AND IN BRIDGE
- 31) WHAT ARE THE HEAVY WEATHER PRECAUTIONS
- 32) DO YOU PUT ANY EXTRA LASHING TO LIFE BOAT IN HEAVY WEATHER
- 33) WHAT IS SHIP REGISTRY
- 34) WHAT IS CLASSIFIATION SOCIETY
- 35) WHAT IS PORT STATE CONTROL
- 36) WHAT IS STATIC ELECTRICITY



- 1) How do you take over the jobs as chief officer? (Which vessels you have sailed)
- 2) What is your job and responsibilities as C/O?
- 3) How do you prepare your vessel as chief officer (Bulk iron ore) Full procedure?
- 4) How do you know how much you can load in one hatch?
- 5) Where it is written that ship can do alternative loading?
- 6) Why do you want to trim cargo holds?
- 7) What are the documents you have to check when finished Cargo operation?
- 8) When loading from 2 loaders 1 is broken what are you going to do?
- 9) Draft surveyor?(Didn't expect formulas)
- 10) As Chief Officer how do you prepare for dry dock?
- 11) As chief officer how do you prepare your vessel for Arrival port?
- 12) What are the precautions as C/O when going through narrow channel? (Not the rule no 9)
- 13) What are the precautions as C/O when in restricted visibility? (not the rule no 19)
- 14) As C/O what are the precautions before entering winter zone?
- 15) New manila 2010 amendments?
- 16) New SOLAS amendments?
- 17) As I was a car carrier guy, asked about Hoegh OSAKA case study?
- 18) How you know there is a TRS. What are the avoiding Actions?
- 19) What are your duties as chief officer in a pollution situation?
- 20) What is damage stability booklet, plan How to use it?
- 21) What are the entries in Official log book? When are you going to open and close the Official log book?
- 22) What is ballast water management plan?
- 23) What is salt water flushing?
- 24) What is the real name of chain registry? What are the contents? Who is a competent person?
- 25) Where to find how much area in superstructure for painting?
- 26) What is the real name of paint manual? Is it a booklet or a manual?
- 27) What is Flag state & classification?
- 28) How to find the KG of a vessel?
- 29) What is MCTC? How to find it?
- 30) What is a trimming moment?



- 1) TSS CROSSING SITUATION .
- 2) LIGHTS & SHAPES OF FISHING VESSEL .
- 3) TECHNICAL DETAILS OF FISHING VESSEL .
- 4) WHAT IS RESTRICTED VISIBILITY (DEF)
- 5) WHAT YOU SHOULD NOT DO IN RESTRICTED VISIBILITY.

- 6) WHAT ARE THE DOCUMENTS REQUIRED FOR DG CARGO LOADING AND FULL PROCEDURE OF LOADING
- 7) HOW DO YOU LOAD EXPLOSIVE CARGO
- 8) HOW MANY BOOKS IN IMDG CODE AND WHAT ARE THE CONTENTS IN SUPPLEMENT
- 9) HOW DO YOU IDENTIFY A TRS AND AVOIDING ACTIONS
- 10) WHAT IS WIND VEERING AND BAEKING

- 11) WHAT IS CLASSIFICATION SOCIETY
- 12) PURPOSE OF CLASSIFICATION SOCIETY
- 13) WHAT IS STATUTARY SURVEYS AND NAME THEM
- 14) WHAT IS OBLIGATION OF FLAG PSD
- 15) AUDIT FREQUENCIES OF ISM/ISPS
- 16) WHAT ARE THE CONTENTS N MARPOL
- 17) HOW DO YOU THROW GARBAGE (REGS)

- 18) WHAT IS MARPOL ANNEX VI ANND RECORDS TO BE CARRIED (SAY ABOUT SEEMP,EEOI CONTENTS)
- 19) WHAT IS SYNCRONITE ROLLING AND WHAT IS ROLLING PERIOD
- 19a) EEZ RIGHTS, COASTAL RULES, CONTIGUS ZONE,
- 20) HOW TO DETERMINE GM BY ROOLING PERIOD, SAY ABOUT THE BROWN'SALANC PROCEDURES. THERE IS A TABLE GIVEN WITH ROLLING PERIOD TO DETERMINE GM.
$$((0.8 * \text{BEAM}) / (\text{PERIOD}))^2 = \text{GM}$$
- 21) HOW IMO PUT FORWARD THEIR REGULATIONS AND GUIDELINES
(SAY ABOUT 5 INSTRUMENTS: CONVECTIONS PROTOCOLS, AMMENDMENTS RECOMMENDATIONS CODES AND GUIDELINES, RESOLUTIONS)

- 22) CONTENTS OF THE IMO (BODIES)
- 23) BALLAST WATER DISCHA. REGS
- 24) MAN OVERBOARD PROCEDURES
- 25) WHAT IS CASUALTY INVESTIGATION CODE
- 26) HOW MANY CHAPTERS IN SOLAS AND WHAT IS IT ABOUT CHAP IV
- 27) HOW DO YOU KNOW WHAT IS PRIMARY NAVIGATION
- 28) HOW MANY ECD25 REQUIRE TO RUN WITHOUT PAPER CHART

- 29) WHAT IS OFFICIAL CHART
- 30) HOW DO YOU IDENTIFY A OFFICIAL CHART BY LOADING ECDIS
- 31) WHAT DO YOU DO FOR AREAS WHERE OFFICIAL ENC ARE NOT AVAILABLE
- 32) WHAT IS INERT GAS.
- 33) HOW DO YOU AVOID STATIC ELECTRICITY
- 34) ECA
- 35) SOLAS, UNCLOSE, MARPOL, CASULTY INVESTIGATION CODE.

CLASS II ORAL EXAMINATION.
P.S.P.GUNASEKARA. (CINEC BATCH 16)
EXAMINER : CAPT. N. SENANAYAKA
23 OCTOBER 2015



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First He checked the personal file and CDC, then he asked past experiences related to that like sea time, company which is employed, trading areas, dry docking experience, types of vessels sailed with and any special accidents or incidents faced with.

1. R.O.R Questions

- a) What are the manoeuvres you should avoid in restricted visibility?
- b) Explain the isolated danger mark – all information
- c) Explain west cardinal mark – all information
- d) You are following course of 180(T) and see a west cardinal mark right head. What is your action?

2. Cargo Handling

- a) What is the angle of repose?
- b) how to measure angle of repose onboard.
- c) Trimming procedure of the cargo with angle of repose less than 30, between 30 n 35, and more than 35.
- d) What are the dangers involve of that all 3 types.
- e) Stability critetias for loading grain in bulk.
- f) Grain securing methods.
- g) What is trimming of cargo.
- h) How to trim solid bulk cargo.
- i) IMSBC code.

3. Dry Docking

- a) SOLAS requirement of dry docking a vessel.
- b) What is in water survey, conditions and procedure of inwater survey.
- c) How to prepare your vessel for dry docking. (Examiner expecting repair list with standard items, repair items, modification items)
- d) Hull preparation and painting.
- e) Permitted and prohibited components of antifouling paint.
- f) Area of applying antifouling paint.

4. Cargo Handling Equipments.

- a) What is the rigging plan and contents
- b) What is slip on anchor and why doing that?
- c) How to slip from deck.

- d) How to select the wire rope for lowering anchor cable. (calculation of diameter of wire, in emergency select a wire about 24mm)
- e) How to calculate SWL of wire ropes.

5. I S M Code.

- a) What is ISM.
- b) Difference between ISM and SMS.
- c) How to implement ISM on board as a chief officer.
- d) How to educate the crew members onboard.

6. MARPOL

- a) What are the MARPOL annexes?
- b) Annex 6 special areas.
- c) Why those call special areas.
- d) How we have minimized the pollution by ships.

7. Stability.

- a) When vessel is ready to load the cargo how would you know the final draft after loading.
Initially my answer was normal calculation procedure with formulas. But he wanted a quick method. Then I told about loading computer. Finally he wanted the answer "Referring trimming table".
- b) Form where you can find trimming table.
- c) How to use it.

8. Manila amendments for STCW and SOLAS.

Examiner wanted two sections separately. What company and ship personnel have to do for implementing those amendments.

9. Marine accidents.

- a) When Latest marine incident. (Reason for the incident, consequences and what could have done to avoid the incident)
- b) What happened to the Costa Concordia. (He expected a general idea about the incident)

.....

Best way to get through from this examiner is answer to the point in very simple way. Avoid use of unnecessary words. This way we can avoid lot of cross questions. And also even we give the correct answer he will act like it is wrong. But stick to your correct answer with confident.

Mobile: 0775725160

Special thanks to all the lecturers in CINEC and all my friends who supported me in this task.

LIBRARY

NAME : ISMAIL , IBRAHIM

EXAMINER : CAPT. NICK SENANAYAKE

DATE : 01.12.2015

1. What you should not do in restricted visibility?
2. Explain Isolated danger mark?
3. Explain AOR and How to measure AOR onboard?
4. How to load cargoes with AOR less than 30, 30 - 35 & more than 30?
5. What are the dangers involved in all above 3 types?
6. What is Transportable Moisture Limit & Moisture Content?
7. What are the routine duties of chief officer at long sea passage?
8. What are the places where the maximum stresses will be in a large bulk carrier?
9. What are the precautions that you will take to reduce the stresses at sea?
10. What is DOA , who issues DOA? ✓
11. What is stability criteria for loading grain in bulk?
12. What are the grain securing methods?
13. How you can find drafts very quickly , from where you can find trimming table?
14. 18. How to use the trimming table? ✓
15. How do you find the rolling period of the vessel , what is the formula to find rolling period?
16. 21. What you can get after checking the rolling period regarding stability of the vessel?
17. What is ISM & SMS and different between them? ✓
18. How you are going to implement ISM onboard as a C/O? ✓
19. How to prepare your vessel for load line survey as a C/O?
20. What are the tests you can do to check whether water is leaking or not from the hatch covers?
21. What is the difference between Flag State & Class , why u need Class?

22. What is inwater survey , conditions necessary to carry out inwater survey?
23. From where you find details of next dry docking of your ship?
24. How to prepare your vessel for dry docking as C/O?
25. What are the contents in the docking plan?
26. What are the standard items in repair list?
27. Explain hull cleaning, surface preparation & painting?
28. What are the methods available for surface preparation?
29. How you will know the thickness of anti-fouling?
30. What is the areas of applying anti-fouling?
31. What is paint manual, what are the contents of it & who issues it?
32. There is a damage on your shell plating, how you will report exact location?
33. What are the tests you do in dry dock for anchor?
34. How you pump out chain locker?
35. You anchor is fouled & can't heave, what you will do?
36. How you slip anchor from deck?
37. What is the size of wire you will use for slip anchor from deck?
38. What is combustible gas detector?
39. What is most common combustible gas you find onboard?
40. What are the limitation of hydrocarbon mixture?

Very special thanks to all my lecturers, class mates & friends ...

Examiner - Capt Samantha Bandara

Candidate - W.M.Sharmeen Roshaka Fernando (cinec batch 22)

Date 08/12/2015

Duration- 2hrs 45min

Class 2 - Orals questions



1. Explain Rule nu 10. How to cross a TSS and enter or leave a traffic lane?
2. Explain rule Nu 19? I was given a situation in RV. One vessel on my port bow / distance 8NM and another vessel on my stbd beam/ distance 3NM .What action to take?
3. Explain transverse thrust?
4. What is shallow water effect? What factors govern it ? Squat formulae?
5. Your the ch off on a container vsl . You are instructed that 2000 teu will be loaded in next port. How will you plan your loading?
6. You are on a bulk carrier. How will you load sugar? What precautions to be taken? How to predict any rain?
7. You are on a general cargo vessel. How you plan your loading of steel coils ? What action will you do if u notice that some parts of the steel coils are rusted or damaged. What action is required?
8. What is stability criteria for a cargo vessel? From where can you find these information?
9. What is static electricity?
10. What is inert gas? How to produce IG?
11. What is flashpoint?
12. Explain angle of loll? What is meant by capsizing lever?
13. Your the ch mate of a vessel going to Dry dock . What are the precautions required? How you plan the DD? What are the plans required. Contents of docking plan? Suitable trim to enter a DD?
14. What is single gear and double gear in mooring winches?
15. What is critical period? Critical instant?
16. Why stern trim is preferred when entering D D?
17. How you carry out loading IMDG cargo? What documentation required?
18. Explain running moor and dropping moor?

19. How to test water tightness of hatch covers? Explain hose test ? Explain chalk test? What is compression bar?
19. How you prepare vessel for a load line survey? If a crack on a sounding pipe is detected, what will you do?
- 20, what is done by Flag state? Port state? And what is classification society?
21. What is ISM code? How you implement it onboard? After which incident was it introduced? Case study about M.V Herald of free enterprise?
22. What are the heavy weather precautions required ?
22. What is the contents of a repair list of a vessel going to a DD? from where can you get the standard list?
23. What are the chapters containing in SOLAS? What is tacit acceptance?
24. How to find if your anchor is dragging? How you draw swinging circle? Why you need to add the ship length?
- 24, If your anchor is dragging in rough weather, what will you do? (answer- to drift with the engines standby at all times, heading to the wind and avoiding beam winds)
24. What is meant by anchor brought up?
24. Your the ch off on a vessel, during arrival , when you are in the forksal, a collision occurs in the forward area. What action will you do? How will you carry out the task? What is a collision mat?
- 2t. What are contents of damage stability booklet ? How will you refer it?
24. How are you carrying out lashing on a container vessel? What publications will you refer?
25. How will you detect any TRS in vicinity?
26. How will you operate the weather fax? From where you get info about the stations? What is navtex ?
27. How will you carry out painting preparations on deck ? How will you paint spot rusting? What is content of paint manual ?
- 28? What is meant by DPA? What is the complaint handling procedure?
29. What are the checks prior entry into a tank for inspection? How will you carry out tank inspection?
- 30? What is the content of SOPEP?



I take this opportunity to thank all my mates in batch 22 who helped me throughout and the staff at cinec, and last but not least..the good luck given by the almighty!



CLASS II- CHIEF MATES ORAL EXAMINATION

Examiner :- Capt.Samantha Bandara
Candidate :- A.G.Isuru Lalindra (CINEC batch 19)
Date :- 10/12/2015
Duration :- 2 hrs 10mins



1. You're joining as a chief officer to a vessel. How do you take over your duties as a chief officer?
2. How do you rectify a non conformity?
3. How do you prepare your vessel for departure?
4. What is **freeboard notice**?
5. What entries do you insert in deck log book?
6. You will have a fresh cadet to your mooring team. What are the instructions that you will give to him as a chief officer?
7. How do you load a container vessel?
8. How do you check SF and BM?
9. What are the instructions you are going to give to junior officers related to cargo operation?
10. You are going to load grain in bulk carrier. How do you carry out the task?
11. While hold cleaning for loading grain you find heavy rust area. Are you going to apply paint?
12. How do you do the chalk test and hose test on hatch covers?
13. What is TML?
14. What is angle of repose?
15. How do you check the angle of repose?
16. What are the hazards related to coal?
17. How do you do the **temperature monitoring inside the coal loaded cargo holds**?
18. What is your action if the temperature continuously rises?
19. What is the different between winch and windlass?
20. Explain **single up gear and double up gear**?
21. You are the in charge of the anchor station. What are the checks to be done prior operation?
22. What is the meaning of 'Anchor brought up'?
23. If you're on the bridge how do you know that your anchor is dragging?
24. Explain running moor and dropping (standing) moor?
25. What are the heavy weather precautions?
26. You're in fwd station. Collision with another vessel. Captain on bridge and he is panic. As a Chief Officer what is your action?
27. Due to collision fore peak tank get flooded and trim by head more than 3m. How do you manage the situation?
28. How do you prepare your vessel for dry docking?

29. What are the standard items and modification items?
30. What is critical period?
31. What is static electricity?
32. What is flash point?
33. What is classification society?
34. What is PSC and the purpose?
35. What do you know about anti fouling paints?
36. Explain the MARPOL annex 5 requirements?
37. What is the major incident lead to SOLAS?
38. What is SUA?
39. Srilankan coastal state found a suspicious vessel 200 miles off the coast? What is the boarding procedure as per SUA?

A special thanks to all the lecturers and the staff in the CINEC and all my friends!!!

Wish you all the best!!!



4. Cargo Handling Equipments.

- a) What is the rigging plan.
- b) Slip on anchor.
- c) How to select the wire rope. (calculation part and by looking)
- d) What size. What is the SWL and safety factor.
- e) Calculation part of SWL of wire ropes. Why it's dividing by 6 (it's safety factor)

5. I S M Code.

- a) What is ISM.
- b) Different between ism and sms.
- c) How to implement ism on board. (as chief officer)

6. MARPOL

- a) What are the annexes.
- b) What all annexes Sri Lanka has ratify and not.
- c) Can they inspect vessels coming to Colombo without ratifying that convention.
- d) Annex 6 special areas.
- e) Why those call special areas.
- f) What are the precautions to illuminate that.
- g) How you know quality of your fuel.

7. Stability.

- a) Trimming tables.
- b) Form where you can find that.
- c) How to use it.
- d) Why you use that.

Then Examiner said OK GO !!!!!!!

You have to answer in very short way, means it's like saying answer in point foam. If you say all things what you know related to question your end up with so many cross questions.

In some questions he need special points so in your answer that point is not have then he will again and again ask the same question. Then don't repeat your answer and think what you miss.

SPECIAL THANKS FOR CINEC CLASS II LECTURES (CAPT. KOTALAVALA, CAPT. RANJITH AND MR. SHANE) AND ALL OF MY FRIENDS.

CLASS II ORAL EXAMINATION.

D.S.RATHNAYAKE

EXAMINER : CAPT. ASIRI HERATH

14.09.2015 (0945-1300)



1. PAST EXPERIANCE? WHAT TYPES OF VESSELS HAVE YOU SAILED WITH?
2. WHAT ARE THE DUTIES & RESPONSIBILITIES OF CHIEF OFFICER?
3. AS A CHIEF OFFICER HOW DO YOU CARRY OUT CARGO GEARS MAINTENANCE?
4. HOW DO YOU IMPLEMENT THE PMS ONBOARD? WHAT ARE YOU GOING TO DO WITH OVERDUE ITEMS?
5. AS A CHIEF OFFICER HOW DO YOU PREPARE YOUR VESSEL FOR CLASS SURVEY?
6. HOW DO YOU PREPARE THE VESSEL FOR VETTING INSPECTION? WHAT ARE THE ITEMS TO BE CHECKED?
7. AS A CHIEF OFFICER HOW DO YOU PREPARE YOUR VESSEL FOR HEAVY WEATHER?
8. AFTER HEAVY WEATHER, WHAT ALL ITEMS WOULD YOU CHECK?
9. SUPPOSE YOU ARE IN NORTHERN HEMISPHERE, YOU ARE ENCOUNTERING A TRS, WHAT ARE THE ACTIONS YOU WOULD TAKE?
10. HOW TO PREPARE THE VESSEL FOR ARRIVAL IN PORT?
11. YOU ARE NAVIGATING IN A CONGESTED WATER, SUDDENLY VISIBILITY BECOME ZERO, AS A CHIEF OFFICER WHAT ARE THE THINGS YOU HAVE TO CONSIDER? (EXAMINER DIDN'T EXPECT THE RULE NO.19)
12. YOU ARE ENTERING IN TO A LONG RIVER PASSAGE, AS A CHIEF OFFICER WHAT ARE THE THINGS YOU HAVE TO CONSIDER? (EXAMINER DIDN'T EXPECT THE RULE NO.09)
13. WHAT IS SQUAT? HOW TO MINIMIZE THAT?
14. WHAT ARE THE OTHER HYDRO DYNAMIC EFFECTS? HOW TO MINIMIZE THEM?
15. HOW DO YOU DO STABILITY CALCULATION BEFORE ENTERING DRY DOCK?
16. HOW DO YOU REDUCE 'P' FORCE PRACTICALLY?
17. WHAT IS THE CONNECTION BETWEEN DECK EDGE IMMERSION AND GM?
18. WHAT IS THE IMPORTANCE OF IMSBC CODE & CONTENTS OF THE CODE?
19. SHIPPER WILL ASK YOU TO NOMINATE MAXIMUM AMOUNT OF IRON ORE CAN LOAD FROM PORT A TO B. A CHIEF OFFICER HOW DO YOU CARRY OUT THIS TASK?
20. HOW DO YOU PREPARE THE LOADING PLAN/ SEQUENCE PLAN?
21. ASSUME YOU ARE LOADING WITH TWO LOADERS, SUDDENLY ONE LOADER IS BROKE DOWN, ARE YOU GOING TO CONTINUE LOADING OR WHAT IS YOUR ACTION?
22. ASSUME WHILE YOU ARE LOADING, THE BALLAST PUMPS BROKE DOWN, NOW YOU CAN'T DE-BALLAST, WILL YOU CONTINUE LOADING OR WHAT IS YOUR ACTION?
23. WHAT ARE THE DANGERS ASSOCIATED WITH HIGH DENSITY CARGO?
24. EXPLAIN THE BALLAST WATERMANAGEMENT PLAN.
25. WHAT ARE THE TYPES OF CRANES?
26. WHAT IS THE OBLIGATION OF FLAG STATE?

OK... YOU CAN GO.....!

GOOD LUCK.....!

CLASS II ORAL EXAMINATION

Examiner - Capt Wilson
Candidate – Amila T Ranaweera
Date -21.12.15
Duration- 2hrs 45min



- 1.How do you take over duties as CH\OFF
 - 2.How do you load a IMDG container
 - 3.Document required for IMDG container loading
 - 4.DOC for above container vessel and its content
 - 5.How do you find the load density
 - 6.How do you load a heavy lift
 - 7.Nairobi convention
 - 8.SUA convention
 - 9.Amendments of MARPOL
 - 10.If heavy cargo shifted at sea in rough weather what will be your action
 - 11.Ballast water management plan
 - 12.Method of ballast water exchange
 - 13.Lashing method of bulk cargo-Bundling,sausagecring,wiremesh
 - 14.Runningmoor
 - 15.Mediterranean moor
 - 16How do you prepare v/l for load line survey as CH/MATE
 - 17.What is coastal state
 - 18.Contracting government
 - 19.IMDG container on fire how you attack fire
 - 20.Where you can find the EMS
 - 21.Where you paste EMS on board
 - 22.At sea ship listed, what can be the reason, how do you check
 - 23.Marpol amendment
 - 24.Pola code
 - 25.How do you load the container
 - 26.Dead weight
 - 27.How do you check SF/BM
 - 28.Any other way to find SF/BM other than computer
 - 29.What are the entries you made on deck log book as CH/OFF
 - 30.Content of official log book
 - 31.Anchor dragging ,and master collapse with heart attack, what is your action
 - 32.How do you find radio medical advice!
- I WILL MAKE YOU PASS AND WISH YOU ALL THE BEST.....

I WOULD LIKE TO THANKS ALL THE LECTURES AND FRIENDS AND OTHERS WHO HELP ME A LOT ,ON MY WAY TO ACHIVE THE GOAL OF CLASS II.WISH YOU ALL THE BEST IN YOUR EXAM!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Class ii orals

Examiner : Capt. Nick Senanayaka.

Candidate : Mithila Ilangakoon.

Date/Time : 23/Oct/2015, 14:25-16:10.

- 1) What type of ships have you sailed in?
- 2) What actions will you not take in restricted visibility?
- 3) Explain the isolated danger mark.
- 4) Explain the west cardinal buoy.
- 5) You see a west cardinal buoy when heading 180*; what action will you take?
- 6) Explain the contents of a rigging plan.
- 7) How would you rig a jumbo derrick which has not been in operation for a long time?
- 8) How do you know the wires you use for rigging the jumbo derrick has sufficient strength without referring the rigging plan? (Calculation of BS/SWL expected)
- 9) How do you load grain?
- 10) What is the DOA?
- 11) What do you find in the grain code?
- 12) What are the grain loading criteria?
- 13) What is AOR?
- 14) Why do we need to know the AOR?
- 15) How do you carry cargo which has an AOR<30*?
- 16) How do you carry cargo which has an AOR>30*?
- 17) Tell me about the grain securing methods?
- 18) Tell me a few grain loading ports.
- 19) How do you find the MC of a cargo onboard?
- 20) What are the contents of the IMSBC code?
- 21) What are the Manilla amendments that were made to STCW and SOLAS? (Examiner wanted to know how most of the amendments were made. Ex: What improved measures to prevent fraudulent practices associated with COCs were taken?)
- 22) How often should a rescue boat be manoeuvred in the water? (He asked this in connection with the SOLAS amendment of recovery of persons from water)
- 23) How do you prepare you vessel for dry docking?
- 24) What are the statutory items found in the repair list?
- 25) How is hull preparation for painting carried out?
- 26) There's a damage on your shell plating. How will you report the exact location?
- 27) What is the thickness of anti-fouling paint?
- 28) What is the colour of it?
- 29) Tell me about the IWS.
- 30) Tell me about ballast water management onboard.
- 31) As a C/O how do you prepare your vessel for a Load Line survey?
- 32) How do you differentiate between the ISM and SMS?
- 33) How would you implement the ISM code onboard as C/O?
- 34) How would you train your crew with regard to ISM?



NAME-D.I.M.DISANAYAKA

EXAMINER-CAPT.NICK SENANAYAKE

DATE-14/10/2015

- 1.What you should not do in restricted visibility?
- 2.Explain Isolated danger mark?
- 3.Explain East cardinal buoy? Your crs is 180 ,What is your action?
- 4.Solas amendments?
- 5.STCW amendments?
- 6.What is grain?
- 7.AOR and important of it?
- 8.What is DOA?
- 9.Can you load grain in general cargo ships?
- 10.Grain loading procedure?
- 11.Grain securing methods and explain?
- 12.What is ISM,SMS and different between them?
- 13.How you are going to implement ISM onboard as a C/O?
- 14.From where you find details of next dry docking of your ship?
- 15.How to prepare your vessel for dry docking as C/O?
- 16.Standard items in repair list?
- 17.From where you get information about paint?
- 18.What is paint manual. What are the contents of it? Who will issue it?
- 19.What is Marpol Annex VI? regulation for Sox
- 20.SEEMP,EEDI?
- 21.ECA areas?
- 22.why they name such areas?



23. What is combustible gas detector?

24. What is most common combustible gas you find onboard? - **Hydro carbon gases**

25. What are the limitations of hydrocarbon mixture? (diagram)

Thanks for all lectures and friends



ND Class II

Candidate - W.M.A.K. Wijesundara
Examiner - Capt. Asiri Herath
Date - 14.09.2015

- How to **take over duties** as new join c/o?
- What're the c/o **duties and responsibilities**?
- What're the '**MARPOL**' Annexes and Discharging Requirement including Special areas, Certificate and Documentation (for each annex)?
- How you prepare your vessel for '**MARPOL**' Survey (Container + Tanker V/L)?
- How to implement **ILO** System on board and how to use it for crew welfare?
- How to use on board resources effectively?
- How to Implement **BRM** onboard and its function?
- Explain **EMS/MFAG** and how to use in case of emergency?
- Latest **IMDG** requirement?
- What's **Limited quantity**?
- **IMDG** container on fire (at sea) what'll be your action as c/o and duties as head fire fighting team?
- **Tanker flammable ranges** explain and draw it?
- At port your vessel Listed and how you identify weather that is on **AOL** or not?
- How to **correct AOL**?
- How do your **prepare vessel for Departure**?
- When Departure time, you're having 2 **tags** FWD & AFT -Explain **Advantage and Disadvantage**?
- **FWD tug rope prated** as soon as departure from pier, Explain your **action** as c/o in FWD station?
- What will be your action as c/o when approaching **heavy weather anchorage** area? (You're in FWD Station)?
- How to **release** your **anchor** in case & emergency. (Explain bitter end and slip on deck method)?
- What is the **weather Pattern** in South African coast?
- How you prepare your vessel for **painting**? And painting **methods** should follow. (Step by step)?
- How to **order paints** and what're **manuals** use for that purpose?
- What're the **IMO bodies and function** of those?
- How to **implement new regulation** BY **IMO**?

Good Luck .

Thank you.



Candidate : S.B.A.S.L.Jayawardena

Examiner : Cpt.Asiri Herath.

Date : 20/23 November 2015.

ORAL EXAMINATION

1. Taking over duties as Chief officer.
2. You are expecting bad weather explain your actions.
3. You are in north hemisphere explain the procedure of determining TRS and avoiding action.
4. Explain the procedure when entering port.
5. You are in bulk carrier and crossing loadline zones. Explain the loading procedure of grain.
6. Explain the grain Calculation procedure with N.C.B format.
7. Explain the grain criterias.
8. Large amount of damaged baged cargo was loaded and noticed later. What's your action.
9. Explain B.O.L and Mate's receipt.
10. Explain the procedure of draft calculation.
11. Procedure of dry docking.
12. Explain loading containers for deferent ports.
13. Procedure of loading D.G.
14. New ammendments for D.G.
15. You find a D.G. container on fire . Explain the actions.
16. What is ISM and implimenting on board?
17. Explain PMS and maintance of lifting appliance.
18. You delayed one item as scheduled in PMS explain the action.
19. Explain ILO and MLC 2006.
20. Explain the crew complain procedure.
21. Explain the rule no 19 & no 2.
22. What is mean by all the way off.
23. You are new to the vessel, how you make sure garbage management plan is compling?
24. What is polar code?
25. Conventions.(Ballast water management, FAL,PAL,SUA,Nairobi,London...ect.)

Thank's for All lectures and friends.

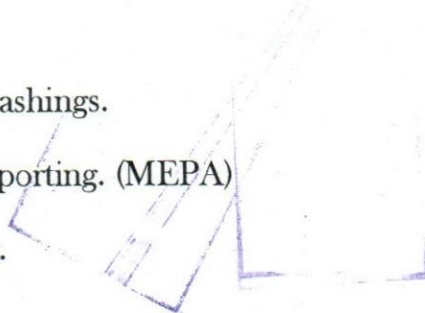
All the best....

Candidate: H.K.P.Visal

Examiner: Capt. Nandikapeiris

Date: 04-01-2016

01. What is your last ship and how did you carryout cargo operation .
02. Bulk loading procedure and hold preparation. .
03. If you have two cargoes how will you carryout loading and how to get maximum cargo lift.
04. What is negative stability.
05. What is reserve buoyancy.
06. What is angle of loll.
07. How to calculate 'P' force.
08. Your ship will be grounded and compartment bilged, how will you calculate stability in order to bring her to dry dock.
09. How to load timber.
10. Dangerous associated with timber, and lashings.
11. What do you do in oil pollution, and reporting. (MEPA)
12. What do you know about ship handling.
13. What is short round turn.
14. Berthing a ship with tug and bow thruster.
15. What do you know about conventions .(tell me 10 conventions)
16. What is MARPOL .
17. What is STCW.



from then

Class II – Chief mate Orals examination

Date : 31 July 2019

Candidate : M.R. Jayanimala

Examiner : Capt. Samantha Bandara

My assignment title was **TROPICAL REVOLVING STORM** .Examiner asked few questions about my project.

1. How the TRS occurs.
2. What are the signs when approaching a TRS.
3. How to carry out the Load line survey.
4. How you calculate the loadable quantity in tanker.
5. Why you want to calculate the 98% as maximum carrying capacity.
6. If not carry out the draft survey ,what is the necessity for reading the reading the draft upon completion of loading.
7. what are the documents you required to have to carry out the STS operation.
8. Full procedure to carry out the STS operation.
9. What men by the PTC? Pre transfer Conference
10. What are the main points you discuss, during the PTC.
11. What men by the VEF? Vessel experience factor.
12. loading heavy lift ? Full procedure.
13. Contents of "Registry of lifting appliances and lose gears"
14. What are the new amendments for – MARPOL Annex V.
15. What are the new amendments for – MARPOL Annex VI.

16. During the loaded passage after 3 days vessel is encountering 3 deg. List to one side. What can be the reasons and what are remedial actions as C/OFF.
17. Specifically on tanker vessel if such 3 deg. list occurs during passage after 4 days what can cause to the list.
18. In case you found cargo leaking form cargo oil tank to adjacent ballast tank what is your action.
19. Procedure for Inerting the ballast tanks.
20. During the passage you are experiencing heavy weather wind 40 kts. and 30 deg. rolling actions as C/OFF.
21. Inspection items in Forepeak tank.
22. During inspection you saw the AB collapsed in bottom platform and , you are in top platform with Boson. Actions and preparations as C/OFF.
23. You are in the evening watch in the bridge. You are receiving a fire alarm from your fire monitoring unit. Action as the C/OFF.
24. You found AB drunk during Off watch. Company Zero alcohol policy. Action as C/OFF.
25. You receive Distress DSC alert on MF 2182 Mhz.What is your action.
26. How you carry out a rescue operation of a vessel on fire with 85 passengers on board.
27. After rescuing 85 passengers you found that the foods stock on board is not sufficient for the whole crew and survivors, action as C/OFF.
28. Boson is informing that he is suffering from Lower abdominal pain ,Action as C/OFF.
29. What men by the damage stability? And use of it.
30. Contents of the Damage stability plan and booklet.

My sincere thanks and gratitude to Capt.Kothalawala, Shane sir, Capt. Ranjith, all the lectures from CINEC and friends who support me in many ways.

Yes you can do it..!!!!

DECK CLASS 2 ORALS

Sameera Kinigama.

06th & 27th /03/2019

Examiner - Capt. Bandara.

Wheat loading, you receive telex from charterer for loading 50000mt (10% + or -) how will you calculate loadable amount.

Hold prep for above loading

Prep of load sequence plan and stowage plan full procedure

Loading ongoing duty officer reports to you that calculated and estimated drafts are different at some stage of loading what is your action

End of loading how to carry out draft survey

1m swell during draft reading for survey what to do

Cargo figures dispute after final calculation between you and terminal

Tanker loading MGO how to find max loadable amount after leaving for expansion full procedure including calculation with factors

Preparation for above loading

After arrival at terminal full procedure

After loading how to find loaded amount and free water

What is UTI GAUGE?

What is topping up and topping off

Container loading 800TEU you were only provided with a list of containers no Baplie how to go ahead with full container loading procedure

Loadline calc., loading at summer, 10 days sailing in summer and entering winter, 4days sailing in winter to arrive at winter bunkering port bunker 500mt then 3days to summer and 5days on summer to arrive at discharging port with a draft restriction

How to pickup cylinder liner 2 tons over weighted to SWL of the store crane wire no options given must pickup from the same crane

What is proof load and what kind of weight will be used.

ILO & MLC difference

What is port state control

TRS message received what's the initial action.

TRS passing nearby, heavy weather precautions

Oil spill on deck during bunkering actions by Chief Officer

Mayday received passenger ship with 800 people in distress nearby what's the action how you carryout rescue operation as chief officer

Ship grounded actions of chief officer

10/04/2019

Examiner- Capt. Wilson

SAT C found not working action as chief officer

Explain exemption and dispensation.

Chief officer FWD station ship will be towed by a wire action as Chief officer

Content of Emergency towing booklet and locations

MLC explain with documentation

Letter of protest, Note of protest and what are the circumstances to issue those

What are the security checks onboard, where are those mentioned

How to test SSAS and interval

How do you manage garbage onboard

Ballast water management onboard

D1 and D2 standards

Treatment methods

What is UNCLOS draw and show sea areas explain each with regards to rights of coastal state and ship what is Baseline, Nearest land, Innocent passage

Nairobi Convention

Draft survey full procedure

How to load IMDG cargo

Contents of IMDG code volumes and supplement

Marpol annex VI new amendment's

What is NOX tier III

Restricted visibility action as management level officer

Contents of Cargo securing manual

Polar code purpose

Contents of ships registry of lifting appliances and loose gear and inspections

Ships registry

Flags of convenience

All the best.

ORAL EXAMINATION – CLASS 2

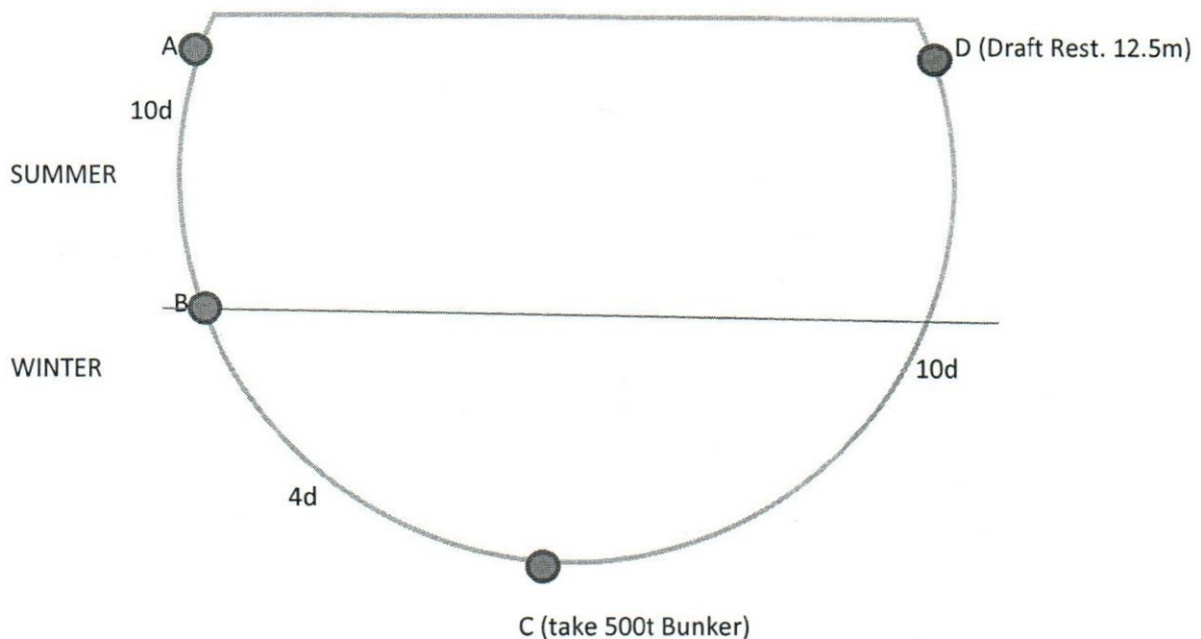
CANDIDATE – T.M.S GORAKANAGE

EXAMINER –CAPT. SAMANTHA BANDARA

STATUS – PASS (TWO ATTEMPTS, SAME EXAMINER)

DATE – 29 MARCH 2019

1. How you load 800 TEU manually?
2. 50000 +/- 10% Bulk loading (Quick answer)?
3. Shipper confirmed cargo quantity, tell me bulk loading full procedure?
- 4.



Maximum quantity load in port A?

5. Explain cargo stowage plan and loading sequence plan?
6. What is the LOP and NOP?
7. How to carry out draft survey?
8. If swell 1m how to take the draft?
9. How to find loadable quantity of oil cargo?
10. Difference of density and specific gravity?
11. How you are deciding to keep space (volume) for expansion?
12. How to find loaded quantity of oil cargo in tanker vessel?

13. How you are find free water?
14. What is the static electricity?
15. During your bridge watch received TRS warning, what is your action?
16. TRS is not passed closed you, but you have to expect heavy weather, what are the heavy weather precautions?
17. During heavy weather your life boat grip has been broken, what is your action?
18. You want to check your bilges in port, how you are checking it?
19. During cargo operation your cargo crane wire has been broken, what is your action?
20. How you are replace new wire rope for broken wire in cargo crane?
21. How to train you're newly join 3/officer?
22. How to train newly join D/cadet?
23. One wire cable has kinks, how you remove it?
24. Your provision crane SWL is 10t, how you pick up 11.5t engine spare parts on board. (No any other cranes)?
25. What are the main difference and special precaution, when you are taking 9t and 11t in that crane?
26. When you are picking up anchor it is foul with a cable, how you are remove it?
27. What are the new amendments for MARPOL annex V?
28. What are the ballast water treatment methods?
29. How you are preparing for load line survey?
30. What are the things you have to check in inspecting forepeak tank?
31. When inspecting forepeak tank bosun collapsed, what is your action as C/Off?
32. When you're bunkering, your bunker line has been burst. What is your action?
33. If fuel spill into sea, what is your action?
34. AB is not reported to duty, you found he is fully drunk and sleeping in cabin, company has zero alcohol policy, what is your action?
35. After investigation master decide to AB sent home, what are the entries you have to log down in official log book?
36. What are the contents in official log book?
37. When you are in bridge, how your know anchor is dragging?
38. When you are in bridge receive distress alert from 2187.5(MF), what is your action?
39. You are proceeding to rescue 800 peoples in passenger vessel, what are the actions as a chief officer?
40. What is the damage stability?

My sincerely thanks to the dedicated lecture panel at CINEC navigation department with special mention to Capt. Kothalawala and Mr.Shane Sankaranarayana

I would like to thank all my friends who support and encourage me in many ways by telephone calls and discussion at boarding house

Thanks all.....

CERTIFICATE OF COMPETENCY AS CHIEF MATE ON SHIPS MORE THAN 500 GT

ORAL EXAMINATION

NAME - O . D. PATHINAYAKE (CINEC BATCH 24)

DATE - 18 MARCH 2019

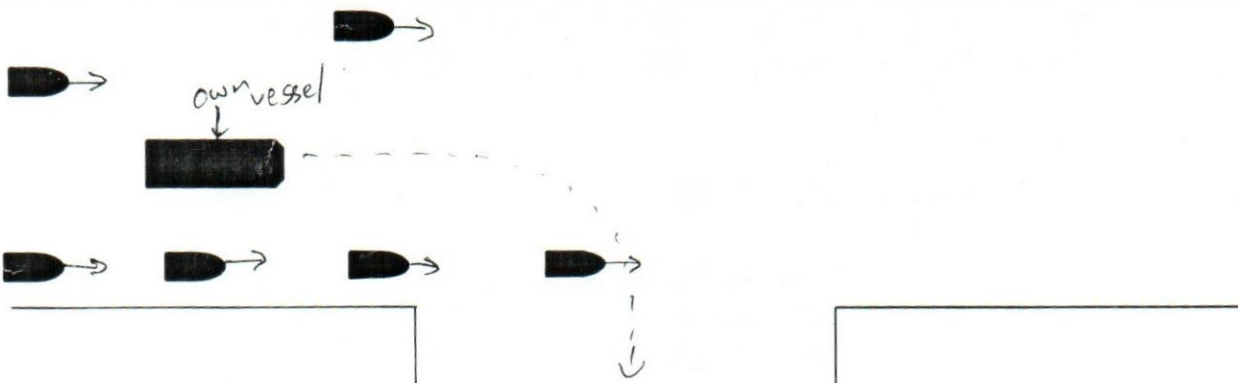
1st ATTEMPT / 2.5 HOURS

EXAMINER - Capt. SAMANTHA BANDARA

STATUS - PASS

- BELOW ARE THE QUESTIONS AND KEY POINTS WHICH SHOULD BE INCLUDED IN SOME ANSWERS.

1. **EXPLAIN RULE NO.19**
(No need to be precisely as per the ROR book. Explain the idea in own words)
2. **ROR SITUATION IN SINGAPORE STRAIT**
(Own vessel is a cape size bulk carrier. Need to enter to the deep water route)



- CBD signals day / night
- Inform VTS
- Broadcast securite msg
- Start to alter slowly to stbd
- Reduce speed if necessary

DEEP WATER ROUTE

3. **WHAT ARE THE PRECAUTIONS TO BE TAKEN WHEN LOADING IMDG**
4. **WHEAT LOADING 55000T MOL 10%**
 - **How to calculate maximum loadable amount**
 - **If loading is confirmed, how to prepare the vessel**
(cargo hold cleaning, documents, loading sequence plan, estimated stowage plan, assess stability condition, discuss with terminal for loading rate)
5. **DRAUGHT SURVEY FULL PROCEDURE**
6. **HOW TO READ THE DRAUGHT WHEN THERE IS 1M SWELL**
(Take series of readings as much as possible and calculate the mean value, use of water tube)
7. **IF CALCULATED LOADED AMOUNT IS DIFFERENT BETWEEN VESSEL CALCULATIONS AND SHORE CALCULATIONS, WHAT IS YOUR ACTION.**
(Ask for shore calculations and compare with your calculation to find any difference on calculation procedure. Check the draught again and take a full tank sounding ballast tanks and void spaces, ask CE for any fuel transfer, ask bosun for store pickups, check the jetty for any cargo spillage from the ship loader, mention a remark on mate's receipt about 1m swell when carrying out the draught survey)
8. **WHAT IS LOP AND NOP**
9. **HOW TO FIND THE LOADABLE QUANTITY ON A TANKER**
 - **How much space you keep for volume expansion. From where you find it**
(at least 2% of tank volume. Tank will be filled 95% - 98% . shippers declaration he will provide the allowance for volume expansion or can discuss with master with his experience or can be taken from volatile organic compound manual VOC manual)
10. **HOW TO FIND THE LOADED QUANTITY ON A TANKER**
(answer should contain finding the free water volume and reducing that amount)
11. **DURING BUNKERING OPERATIONS, OIL SPILL FROM BUNKER BARGE. ACTION**
(reporting to port control and assisting the bunker barge for stop the spill must be mentioned)
12. **WHAT IS DAMAGE STABILITY**
13. **WHAT IS PORT STATE AND FLAG STATE**
14. **WHAT IS FREEBOARD NOTICE**
15. **WHAT ARE THE ENTRIES IN OFFICIAL LOGBOOK**
16. **NEW AMENDMENTS FOR MARPOL ANNEX 5**
17. **WHAT ARE BALLAST WATER TREATMENT METHODS.**
18. **PROVISION CRANE WIRE SWL IS 10T. YOU HAVE AN ENGINE SPARE PISTON OF 11.5T TO PICKUP ONBOARD. NO ALTERNATIVES. HOW YOU PICKUP.**
(check the proof load test details for the wire from registry of lifting appliances and items of loose gears onboard. Attach a block and use slings with adequate SWL. Pickup the piston by giving the weight to both crane and the block in combination)
19. **HOW TO PICKUP A SPARE CRANE WIRE FROM SHORE AND PROPERLY STORE IT IN A STORE ROOM ONBOARD.**

(mention about putting it to a turn table and uncoil it by pulling it from one end and coil it again inside the store room so as not to produce any kinks)

20. YOU ARE ON BRIDGE WATCH. YOU RECEIVE A TRS WARNING. ACTION

21. HOW YOU PREPARE THE VESSEL FOR HEAVY WEATHER AS CHIEF MATE.

(mention about risk assessment, heavy weather checklist, checking the present stability condition, secure the deck for heavy weather such as anchor lashing closing watertight doors, tight lashing, close booby hatches, additional lashings for gangway, rig the life line etc)

22. WHAT IS LIFE LINE

23. HOW YOU PREPARE THE VESSEL FOR LOADLINE SURVEY

24. VESSEL SECURITY LEVEL IS 1. NEXT PORT SECURITY LEVEL IS 2. YOU ARE THE SSO. WHAT IS YOUR ACTION

(inform CSO, flagstate and then inform crew about security level change, take necessary precautions as per ship security plan. Lock and restrict the people from restricted areas, Arrange a watch schedule for crew to carry out security patrols)

25. YOU RECEIVE A DISTRESS MESSAGE WHILE ON BRIDGE WATCH. ACTION.

26. YOU ARE GOING TO RESCUE 800 PASSENGERS FROM A DISTRESS SHIP. HOW YOU WILL PREPARE FOR RESCUE.

(check and arrange accommodation area, provision, sanitary items, blankets, take all possible crew to rescue operation. If possible use the distress ship lifeboats and help of their officers. Once they taken onboard check and provide the needs and care. Mention the word "crowd management". Take the assist of your officers as well as the passenger ship officers)

27. WHAT ARE THE THINGS TO CHECK IN FOREPEAK TANK INSPECTION

28. WHEN INSPECTING THE FOREPEAK TANK, BOSUN COLLAPSES. WHAT IS YOUR ACTION

29. HOW YOU WILL TRAIN A NEWLY JOINED FRESH CADET

30. AB FOUND DRUNK. COMPANY ZERO ALCOHOL POLICY. WHAT IS YOUR ACTION

31. CREW REPORTS THAT BOSUN IS NOT PRESENT FOR MORNING WORK AND IS MISSING. WHAT IS YOUR ACTION

Above are only some key points to some questions which the examiner was expecting me. Take those as guidelines only & be more detailed when you giving answers and be confident.

I thank all CINEC staff including shane sir, capt. Kothalawala, capt. Ranjith, capt. krishan , thilak sir, capt. Dolapihilla, capt. Kolitha mr.oshadha, mrs narmatha and CINEC library staff And also all my friends from mates batch 35-39
All the best.

Class II Oral Examination

Date: 13.06.2018

Candidate: P.G.B Thelijjagoda

Examiner: Capt. Bandara

Status: Pass

1. Few questions about the project.
2. What are the documents required before loading a container ship?
3. How you load a 800 TEU container vessel? (Port rotation given full loading procedure)
4. How you prepare this vessel for departure?
5. What is your action as a chief officer if calculated Displacement and actual displacement is different?
6. You have to load heavy cargo unit and it is already on the pier, how you load this cargo? (Loading heavy lift full procedure. Mentioned in Shain Sirs book)
7. You are sailing with small GM (0.3m) how you improve GM during voyage?
8. What is torsion stress?
9. Reasons for torsion stress and effect on container vessels?
10. How you prepare your vessel for load line survey? (Full procedure)
11. You are on the bridge and received Storm warning what are your actions as a chief officer?(mainly expecting heavy weather precautions)
12. Duty officer inform you anchor is dragging what will you do as a chief officer?
13. Duty AB reported to you that his reliever is showing unusual behaviors what will you do as a chief officer?
14. Same case suspects that AB was drunk what will you do as a chief officer?
15. If that happened on zero alcohol policy vessel will you do as a chief officer?
16. You received Distress alert on your watch what are your actions?

17. Vessel is proceeding to rescue 800 people in passenger ship what will you do as a chief officer? (crowd management is important)
18. You are on a coastal voyage how do you get weather information for srilankan coast? (Don't say NAVTEX)
19. What is flash point?
20. During arrival 3/O inform you that master is not response to the phone and close to pilot station What will you do?
21. Same case if master unable to come to the bridge what will you do (you are not having masters license)?
22. During bunkering oil spill from the bunker barge, what will you do?
23. What is damaged stability?
24. What is the use of damaged stability?
25. Fore peak tank inspection and critical areas of fore peak tank?
26. Bsn collapse during tank inspection and you also inside that tank what is your action?
27. What are the applicable laws and rights of the coastal state in territorial waters?
28. How you train new cadet onboard?
29. Vessel expecting passage through high latitudes, how you prepare the vessel? (Explain all hazards and precautions)
30. What is MARPOL annex VI?
31. What are the new amendments to MARPOL annex VI?
32. What are the new amendments to MARPOL annex V?
33. What are the ballast water treatment methods?

My sincerely thanks to Capt.Krishan, Capt.Kothalawala, Shain Sir and all dedicated lectures and staff of the CINEC navigation department and my friends who support me in various ways.

Class II Oral Examination

Candidate: P.A. Kasun N. Polgampala

Examiner : Capt. Upul Peris

Status: Pass

1st Attempt: Fail

07th June 2019

Examiner checked my assignment (Health measures on Arrival of ships) and asked following questions.

1. What is IHR-WHO?
2. What is the statutory certificate under WHO?
3. What is the duration of the extension of the certificate?
4. How do you prepare your vessel for the sanitary inspection?
5. What is the competent authority related to IHR?
6. What are the additional health measures for ships at point of entry related to IHR?
7. What are the consequences upon a ship not willing to submit to the measures required by the health authority?
8. Is vessel permitted to take water related to above situation?

(Note: Examiner was not satisfied with the answers and told me to study the project and come on 10th June)

10th June 2019

Examiner asked the 7th & 8th questions again.

1. What should be included and checked when conducting a fire drill?(SOLAS CH III, Reg 19. 3.4)
2. What should be included and checked when conducting an abandon-ship drill? (SOLAS CH III, Reg 19. 3.3)
3. How do you maintain your LSA as a Chief officer?
4. Briefly describe the inspection schedule (weekly, monthly...etc)?
5. How do you maintain your garbage record book?
6. How do you discharge food waste?
7. If food waste is mixed with other types of garbage, how do you discharge it?
8. What is nearest land?
9. What is MARPOL Annex VI?
10. What are the pollutants related to MARPOL Annex VI?
11. As a chief officer, How do you reduce CO2 emission?
12. What is SEEMP?
13. How do you manage Risk on-board? (Examiner was not satisfied with the answer)

14. What is the risk assessment?
15. You have to paint funnel. How do you plan it?
16. You will get a chance to be a part of the SMS review team. What is your role as a Chief Officer?
17. What are the Statutory certificates under ISM?
18. How often will the ISM inspections be conducted?
19. What is the purpose of the Load Line? Why is it assigned? (Examiner was not satisfied with the answer)
20. What is the deck Line?
21. How do you prepare your ship for Load Line survey? (Examiner was not satisfied with the answer)
22. What is the chief officer's role under ISPS? (Examiner was not satisfied with the answer)
23. What are the occasions, the DoS is issued?
24. You have loaded grain and already departed. During the voyage, Master should have "Due Diligence" regarding cargo and safety. What is the chief officer's role to ensure that? (Examiner was not satisfied with the answer)
25. What is the dynamical separation?
26. What is the impact on the ship due to dynamical separation? Explain in term of Stability.
27. What are the documents required for IMDG cargo loading?
28. What is the DG declaration and DG manifest?
29. You observe an IMDG spillage on-board during the vessel in the berth. What is your action?

2nd Attempt: Pass

01st July 2019

1. How do you manage risk on-board?

Answer:

- Improve the safety culture on-board
 - Identify the type of the task/operation & type of the environment is available
 - Hazard Identification
 - Risk Assessment
 - Risk Treatment
 - Risk Acceptance
 - Cost Implementation
 - Recommendation
 - Risk Monitoring
2. What is the Load Line?
 3. What is the full procedure of calculating the maximum loadable quantity?
 4. What are the occasions, the DoS is issued?

5. What are the due diligence regarding cargo operation?
6. What are the records of SEEMP?
7. What are the garbage categories?
8. How do you record discharge of cargo residues?
9. What are the strategies of maintaining hygiene on-board?
10. What is the rescue boat drill frequency?
11. What is the security drill frequency?

WISH YOU ALL THE BEST...!!!

My sincerely thanks to Capt.Krishan, Shane Sir, Capt.Kothalawala, and all dedicated lectures, staff of the CINEC navigation department, CINEC Library and special thanks to Nadeeshan Ranaweera, Kulunu Sathkumara, Kaveendra Hewage, Gayan Telijjagoda, Capt Ramin Amaradivakara, Capt. Amila Arunapriya, Capt. Roman Acharige, Capt. Jerome Thambipillai and all my friends who support me in various ways.

Class II Oral Examination

Candidate: S.M.K.R Sathkumara

Status: Pass

1st Attempt

Date: 14.06.2018

Examiner: Capt. Sunil Jayaweera.

Duration: - 2Hrs

1. He has checked my assignment thoroughly?
(Assignment: - Motivation Theories & application on-board/ harassment & Bullying)
2. Describe about yourself with Previous Experience.
3. What was the highest and lowest temperature that you have experienced?
4. Now you are in temperature 45Deg, Crew un-happy to work on deck. What is your action as chief officer?
(Change work schedule as required)
5. Crew is informing that they need overtime as they are working in hot weather, how do you manage the situation??
6. How do you plan daily work on-board?
7. How do you change your crane runner wire?
(Examiner informed that either yourself or deck crew doesn't have any experience)
8. How do you select paint for your ship?
9. Company decided to change paint supplier, Now what you do?
10. What are the consequences, if you do not apply correct type of paint in correct places?
11. How you plan for loading of tanker?
12. There is a draft restriction, then how do you calculate maximum loadable quantity?
13. Vessel proceeding in same load line, find the loadable quantity?
(Consumption F/O & F/W both 2MT per day)



14. What are the purposes of the safety margin that you keep when you load a tanker?
15. Vessel proceeding from warm to cold, now do you want to keep safety margin? Why?
16. How do you plan for timber loading?
17. How do you carryout lashing of timber?
18. Your SF & BM within the limits how do you maintain your stability?
19. Explain stability criteria for loading timber cargo?
20. Why there is a different requirement of GM for container ship & timber loaded ship?
21. What are the hazards and precautions of timber?
22. How do you check the adequacy of the timber lashing?
23. How do you discharge animal carcasses into sea?
24. What is the purpose of traffic separation scheme?
25. Who is deciding to adopt TSS?
26. What is the procedure of adopting TSS?
27. Can you navigate outside of TSS? How?
28. Restricted visibility there is a target forward of the beam. You can't hear fog signal, give me the reason why you don't hear?
29. What is the range of fog signal?
30. You will detect target by radar 6NM forward of the beam in restricted visibility, what is your action?

2nd Attempt

Date: 28.06.2018

Examiner: Capt. Samantha Bandara

Duration: - 2 Hrs

1. Examiner checked my assignment & asked few question.
2. You are in handy size tanker vessel, master wants to know the maximum loadable quantity. What is the procedure?
3. Why do you keep 98% from the tank when planning for loading?
4. When you calculate cargo quantity what are the document that you refer?
5. What is the difference between ASTM 54 a & b.
6. Cargo quantity is confirmed. How you prepare vessel for loading?
7. What is the important of sequence plan?
8. What are the documents you should prepare before cargo operation?
9. What is vessel experience factor & why it is calculate?
10. What is topping up?
11. What is the condition to be maintained inside the cargo tank?
12. What is topping off?

13. How do you carry out topping off?
14. When and how conduct the pre-loading meeting?
(He is expecting the meeting, which is carryout between ship & external parties)
15. Ok now all safety and deck preparation done for loading. Then what will you do?
(Check the tanks with surveyor, final loading/discharging agreement with loading master)
16. How do you carry out the final calculation?
17. After completed of calculation found considerable difference between ship & shore figures.
What is your action as chief officer?
(Confirm on-board quantity/ Surveyor should check terminal quantity / then LOP through master)
18. You are in general cargo ship which having twin deck, As per charterer instructed to load steel boxes in lower hold and wooden cartoons on tween deck. How much maximum steel box and wooden cartoon can be load?
19. You are supposed to load heavy weight by using ship crane. Explain the procedure?
20. What is lateral drag?
21. Explain stability behavior of the ship while loading that heavy weight?
22. You are in bridge you receive cyclone warning, what are you going to do as chief officer?
23. Cyclone is going to affect you within next 24hours what is your action as chief officer?
24. When you heaving up or lowering anchor, anchor cable stuck in spurling pipe what is your action as chief officer?
(He mentioned that anchor cable stuck in spurling pipe)
25. What could be the reasons for stuck anchor cable?
(He did not mentioned the place where anchor cable stuck in this question)
(Twisting of cable/ wear & tear of anchor cable/ corrosion due to long time not in used/ muds while heaving up)
26. What are the latest amendments came to MARPOL Annex 5?
27. What are the latest amendments came to MARPOL Annex 6?
28. What are the amendments came to STCW?
29. What are the Ballast water treatment methods?
30. How do you prepare your vessel for load line surveyor as a chief officer?
31. How many load line marks ship can have & how do you use them?
32. What is the flag state?
33. What is port state?
34. While you loading found that oil leaking to sea from terminal. What is your action as chief officer?
35. What does mean the damage stability?
36. You found crew member with abnormal behavior & confirmed he is not drunk. What is your action as chief officer?
(Take him to safe place/ Photo and video evidence/ collect information /Radio medical advice / Record keeping)

37. You are selected as on-scene commander by mission co-coordinating centre and instructed to rescue 800 passengers from passenger ship which is in fire, lot of passengers in the water. What is your preparation as chief officer?
38. What are special areas to be check in ballast tank?
39. Bosun come and complain he is getting head pain regularly what will you do?
(Specially previous history of medical issues)
40. How do you know that anchor is brought up?
41. What is purging of the tank?

WISH YOU ALL THE BEST...!!!

My sincerely thanks to Capt.Krishan, Capt.Kothalawala, Shane Sir, all dedicated lectures, staff of the CINEC navigation department, CINEC Library.

My special thanks to,
Kavindra Hewage,
Kasun polgampola,
Nadeeshan Ranaweera,
Gayan Telijjagoda,
Capt Ramin Amaradivakara,
Capt. Amila Arunapriya & all my friends who support me in various ways.

13.02.2019

CAPT WILLSON

L.P.K.R.MADUSHA

0915-1100

FAIL

01. TELL ME ABOUT AN INCIDENT HAPPEN ON BOARD UR V/L, (MY INCIDENT WAS MOB AT MALLACCA STRAIGHT)

02. HOW YOU PREPARE UR RESCUE OPS.

03. WHAT ARE THE SEARCH PATTERNS YOU CARRIED OUT?

04. WHAT IS FULL ROUND TURN?

05. WHAT IS WILLIAMSON TURN?

06. UR VSL IS CONTAINER WITH DG. ARE YOU GOING TO CARRYOUT THIS OPERATION?

07. HOW YOU GOING TO CROSS THE TSS.

08. WHY YOU KEEP UR HEADING 90 DEGRRES.

09. NOW UR VESSEL IS IN UK WITH RESTRICTED VISIBILITY HOW YOU CARRY OUT RESCUE OPS.(USE SART)

10. NOW OWNER WANTS TO CONVERT UR CONTAINER VESSEL TO A BULK CARRIER, WHAT THE INFORMATION U PROVIDES TO OWNER.

11. YOU HAVE 60000 MAZES TO LOAD TELL ME FULL PROCEEDURE.

12. WHAT IS SF/LOAD DENCITY/STACK WEIGHT?

HOW TO CALCULATE CONSTANT.

WHAT ARE THE GRAIN CRITERIA?

DRAW ME.

WHAT IS LIST/HEEL?

HOW YOU DRAW HEELING ARM CURVE.

WHAT IS DEI?

19. WHAT ARE THE CRITERIA FOR CAR CARRIER?
20. DRAW ME AND SHOW ME HOW TO APPLY.
21. HOW TO DRAW GZ CURVE.
22. WHAT IS POLAR CODE?
23. IS IT IN FORCE NOW?
24. WHAT ARE THE THINGS YOU HAVE TO DO AS PER POLAR CODE?
25. WHAT ARE THE NEW AMMENDMENTS COMMING IN TO FORCE REGARDING BUNKERS IN 2020?
26. BARROMETRIC PRESSURE REDUCES 3 MB WHAT ARE THE ACTION YOU ARE GOING TO TAKE.

01.03.2019

CAPT WILLSON

0915-1030

PASS

01. WHAT ARE THE INFORMATION YOU GET FROM UR DUTY OFFICER AFTER COMPLETE LOADING.(DIDN'T MENTION TYPE OF SHIP)
02. WHAT ARE THE TYPE OF CHATERS?
03. WHAT IS P&I CLUBS.
04. WHAT ARE THE FACILITIES THEY ARE PROVIDING?
05. IF CARGO DAMMAGE DUE TO NEGLIGENCE OF THE CREW WHO IS LIABLE FOR IT.
06. WHAT ARE THE THINGS THAT YOU CAN DO TO PREVENT FURTHER DAMAGES.(CREW TRAINING/RA/CHECKLIST)
07. WHAT IS PSC?
08. WHAT IS MLC?
09. HOW YOU GOING TO IMPLEMENT MLC ONBOARD.

- ✓
10. WHAT ARE THE DOCUMENT REQUIRED TO CARRY ACCORDING TO MLC?
 11. HOW YOU MANAGE GARBAGE ONBOARD.
 12. WHAT IS IMDG?
 13. WHEN MASTER SAY YOU THAT WE HAVE A DG TO LOAD HOW YOU GO ABOUT IT.
 14. WHAT ARE THE TRAINING THAT YOU ARE GOING TO GIVE TO UR CREW?
 15. WHAT ARE THE NEW AMENDMENTS CAME FOR IMDG?
 16. WHAT IS POLAR CODE?
 17. WHAT IS THE DIFFERENT BETWEEN OFFICIAL LOG AND DECK LOG BOOK?
 18. HOW TO CALCULATE CONSTANT.
 19. HOW YOU ANALYSE FW.
 20. WHAT IS THE FREQUENCY?
 21. FROM WHERE IT CAME.
 22. WHAT ARE THE NEW RULES IN COLREG?

MY SINCERELY GRATITUDE FOR ALL THE LECTURES IN CINEC MARITIME CAMPUS, SPECIALLY SHANE SIR, KOTHALAWALA SIR, RANJITH SIR, KRISHAN SIR AND MR OSHADA, MS NARMADA AND CINEC LIBRARIAN MS POORNIKA AND ALL THE FRIENDS WHO GAVE ME SUPPORT AT EVERYTIME.

I WISH YOU BEST OF LUCK FOR YOUR EXAM AND HOPE THIS QUESTIONS WILL GUIDE TO GET YOU FOR YOUR ORALS.

THANK YOU.

ORAL EXAMINATION QUESTIONS - CLASS II

Examiner : Capt. Gamini Wilson / Capt.S.M.S.Bandara

Candidate : S.K.R.R.Chandradasa

Date : 18.02.2019

Status : Pass

1st Attempt : Capt. Gamini Wilson - (Fail)

01. What is IMDG code?
02. Content of It?
03. What are the IMDG classes?
04. How you load IMDG cargo?
05. What are the instructions you give to your officer and crew regarding loading DG?
06. What is DOC?
07. What are the documents when loading IMDG?
08. How do you load IMDG containers on board?
09. How do you load class 7 (Radioactive container)?
 - Refer IMDG Vol 1, Consignment procedure
10. Where can you see IMDG Play cords?
11. You are receiving telex from the shipper that you have to load 60000 t coal cargo.Five hatches ship. South Africa to Australia voyage. Full procedure of how you are loading the cargo?

2nd Attempt : Capt. S.M.S.Bandara - (Fail)

01. You have to load 60000+/-10% of bulk cargo (coal).What are the Information you are required from shipper?
02. Tell me how to find loadable amount quickly?
 - No draft restriction , No load line Restriction
03. Okay, Tell me full procedure continue?
04. What is cargo stowage plan and sequence plan content of it?
05. Draw loading Sequence plan?
06. Why you take visual draft and calculated draft?
07. 1 m swell how you read draft?
08. Why you doing trim? How you doing trim?
09. What use for trimming tables?
10. How to find final cargo amount?
11. Draft survey, what is QMD?
 - Means of means of mean draft

12. Your ship cargo figures and shore cargo figures are different. What is your action?
13. What is the precaution when loading coal?
14. How you find in tanker loadable amount?
15. How you find in tanker final loaded amount?

3rd Attempt : Capt. S.M.S.Bandara - (Pass)

01. What is cargo stowage plan and loading sequence plan contents?
02. Why you take two draft as observed and calculated in sequence plan?
03. How you doing Final trimming?
04. How you are find in tanker loadable amount?
05. You are receiving a warning regarding TRS. What is your action?
 - Plot the ships Posn and TRS center Posn and Imminent and probable path of it. Check all available means, warning msg. Inform master
06. On your encountering heavy weather. What is your action?
07. What is the importance of Rigging life line Fwd and aft? How do you rig it?
08. How to prepare vessel for L Line survey?
09. How do you inspect fore peck tank?
10. You have new joining fresh 3rd officer. How do you put him for cargo operation?
11. During this inspection you found Bosun suddenly collapsed .What is your action?
12. You found one AB consumed alcohol as your company maintaining zero alcohol policy .What is your action?
13. Your crew report that OS and Steward fighting with each other for food matter. What is your action?
14. When cargo operation OS abused to 2nd officer. What is your action?
15. What is damage stability?
16. Contents of damage stability booklet plan?
17. What is port state control?
18. What is Flash point?
19. You are needed to pick up package from provision crane inside package engine spare part. How to do that operation and what should you have to check?
20. SOLAS new amendments?
21. MARPOL annex V new amendments?
22. Ballast water treatment methods?
23. What is base line?
24. What are the jurisdictions of territorial water?
25. What is the inner cent Passage?
26. There are 800 passengers. Your master decide rescue them .How you prepare your vessel for that as chief officer?
27. What are the considering areas as a chief officer in above operation?

- Confidently answer the question. There are certain places where you going to get stuck that is natural. At that time try to elaborate what you know. (Even drawings)
- ❖ My sincere Thanks to all my lectures at CINEC Maritime Campus. Thanks to all my friends who encourage me, guided me and giving their fullest support throughout.
All the Very Best.....

Class II Orals

Date : 06.02.2019

Examiner : Capt.S.M.S.Bandara

Candidate : R.L.Wijesena

Status : Pass

1. How to approach with the TSS and cross with the precaution area enter to the other general direction

2. Rules no19 in your word
3. In the next port cargo Charter is giving the cargo amount master wants the loadable quantity
4. You received telex from the shipper to load 60000+/10% how you going to load with it
5. How do you know the loaded amount is correct
6. Loading amount is conformed, how you preparing for the voyage
7. Different between the stowage plan and sequence plan
8. what are the contents of sequence plan
9. Used of trimming tables for the final trimming
10. What is freeboard notice
11. What details inside of free board notices
12. How your going to load the container (full procedure)
13. What are the instructions your are giving for duty officer while loading IMDG
14. How you going to put fresh 3rd mate on duties
15. What is parametric rolling
16. one and half meter swell how do you going to read the drafts
17. 3 degree list after loading of 3,4 days what can be the cause
18. What is damage stability, what is use of it
19. you received TRS warning from 500nm , what is your action

20. How you prepare the vessel for the heavy weather as chief officer
21. What is Life Line
22. How you prepare for load line survey
23. You have Zero alcohol policy you found one O/S drunk on recreation room ,what is your action
24. Why you dismissals him
25. What is static electrifices
26. There is big box on pier ,you have to take from provision crane what are the things you check as chief officer
27. What are the contents of Registry of lifting gear appliances and items of loose gear
28. There is 800 on a passenger ship, how to rescue them as chief officer
29. What is flag state and port state
30. Entry's to the OLB
31. What are the fore peak tank inspection
32. Bosun collapse in front of you in the FPT , what is your action
33. STCW new amendments, and MARPOL Annex V
34. How you do the ballast water exchange
35. What are the treatment methods

My sincere thanks to all my Lecturers at CINEC. Thanks to all my friends who encourage me guided me and giving their fullest support throughout.

ALL THE VERY BEST.

CLASS II ORAL EXAMINATION

EXAMINER: Capt. Gamini Wilson

CANDIDATE: G.G.D.N. Wijewardana

No. of attempts: 2

1. What are the types of charters?
2. Explain bareboat charter, time charter, voyage charter?
3. What is intact stability?
4. What is the difference between dynamical stability and statical stability?
5. What is csc plate and contents?
6. As a chief officer how do you prepare vessel for loadline survey?
7. What are the contents of damage control plan?
8. What are the Rest hour periods as per stcw?
9. What is stranding?
10. What is grounding?
11. What is unclos?
12. What are sea areas under unclos and their limits?
13. What are rights of a vessel under each limit?
14. What is innocent passage?
15. How do you implement ism onboard?
16. How do you handle an incident of crew fight as a chief officer?
17. How do you maintain medical chest?
18. How do you dispose expire medicines?
19. How do you implement garbage management onboard?
20. What are the contents of garbage management plan?
21. What is mlc 2006?
22. What are the documents required onboard under mlc 2006?
23. What is dmlc part 1 and part 2?
24. As a chief officer how do you implement mlc onboard?
25. Brand new vessel, grain loading 60000mt. 5 cargo holds. what is the procedure?
26. If no loadicator, how to load manually?
27. From where you can find value of vcg?
28. Reefer container with apple gets malfunctioned. as a chief officer what is your action?
29. After 24 hours, still cannot rectify. what is your action?
30. After this problem consignee request for chip of reefer container. what will you do?
31. Latest marine incident?
32. How severe the outcome?
33. What are the precautions to take during sts operation?
34. What is the stability criteria for a cargo vessel?

I would like to thank all lecturers at cinec and all of my friends for their guidance and support. wish you good luck..

CLASS II ORALS EXAMINATION

1ST Attempt Examiner Cpt.Asiri Herath FAIL
Candidate R.M.G. MENAKA
Duration 3hrs

- 1 WHAT SHIP YOU ARE ? BULK CARRIER
- 2 WHAT SIZE ? CAPE SIZE, PANAMAX,HANDYMAX
- 3 TAKING OVER JOB AS CHIEF OFFICER ?
- 4 AS C/O HOW DO YOU PREPEAR VESSEL FOR DEPARTURE ?
Departure Documents,Orders to Bosun and crew, Crew Rest Hours.
- 5 VESSEL DEPART FROM BERTH ALL LINES ONBOARD YOU ARE AT FWD STATION AS C/O
MAIN ENGINE BREAK DOWN WHT IS YOUR ACTION ?
- 6 VESSEL AT SEA C/O ON WATCH RECEIVED HEAVY WEATHER WARNINGS ACTION?
- 7 PROCEDURES FOR TAKING HEAVY BALLAST AND SAFETY PRECAUTIONS ?
- 8 EFFECT ON SLACK TANKS OR HOLD BALLAST ?
Sloshing effect,Free Surface Effect,Virtual Loss Of GM
- 9 DRAUGHT SURVEY FULL PROCEDURE WITH FORMULAS ?
- 10 VOYAGE INSTRUCTION,CARGO CALCULATION LOADABLE AMOUNT ?
- 11 WHAT IS GRAIN CODE ?
- 12 GRAIN STABILITY CALCULATION AND NCB FORMAT ?
- 13 WHAT IS DOA (Document of Autorization) ?
- 14 HOW TO LOAD A VSL WITHOUT DOA?
- 15 WHAT IS GRAIN HEELING MOMENT AND HOW TO FIND IT?
(Total VHM/Displacement Explain how to find VHM)
- 16 WHAT IS VHM ?
- 17 FINAL LCG,KG,FSC ?
- 18 FINAL TRIMMING OF THE VESSEL ?
- 19 HOW TO LOAD A CONTEINER SHIP ?
- 20 STABILITY CRITERIA FOR CONTAINER SHIP ?
- 21 WHAT IS IMDG CODE?
- 22 CONTENTS OF IMDG CODE?
- 23 NEW AMENDMENTS FOR IMDG CODE?

2ND Attempt Examiner Cpt.Asiri Herath FAIL
Duration 15min

- 1 TELL ME BALLAST?
start with convention and explain all about ballast water management
- 2 FULL BALLAST ?
- 3 LOADABLE QUANTITY CALCULATION?

3RD Attempt Examiner Cpt.S.M.S Bandara FAIL
Duration 2hrs

- 1 HOW TO CALCULATE LOADABLE AMOUNT?
- 2 FULL PROCEDURE HOW TO LOAD 50000 +/- BULK CARGO ?
- 3 HOW TO CARRY OUT DRAUGHT SURVEY ON BULK CARRIER ?
- 4 WHAT IS QMD AND WHY IS IT DIVIDED BY 8 ?
- 5 HOW TO LOAD STEEL BARS AND STEEL COILS ON GENERAL CARGO VSL?
- 6 DRAW LODING PLAN AND EXPLAIN?
- 7 HOW TO FIND LOADED QUANTITY ON GENERAL CARGO SHIP? FORM TALLY SHEETS
- 8 HOW TO LOAD A TANKER FULL PROCEDURE?
- 9 HOW TO CALCULATE LOADED AMOUNT ON TANKER?
- 10 WHAT IS WAIGHT CORRECTION FACTOR AND VOLUME CORRECTION FACTOR?

4TH Attempt Examiner Cpt.Asiri Herath FAIL
Duration 20min

- 1 WHAT IS PRE PAID BILL OF LADING?
- 2 WHAT IS BILL OF LADING ?
- 3 WHAT ARE THE TYPES OF BOL EXPLAIN ?
- 4 DRAFT SURVEY FULL PROCEDURE WITH FORMULAS?

5TH Attempt Examiner Cpt.GAMINI WILSON PASS
Duration 2hrs

- 1 WHAT ARE THE QUESTIONS YOU DID NOT ANSWER IN YOUR PREVIOUS ATTEMPT?
- 2 EXPLAIN HOW TO FIND LOADABLE QUANTITY?
- 3 WHAT IS CONSTANT?
Difference between desinged Light Ship and actual displacement when Ship is empty.
- 4 WHAT IS BALLAST WATER MANAGEMENT CONVENTION?
- 5 WHY IS IT IMPORTANT FOR C/O?
- 6 HOW DO YOU IMPLEMENT BALLAST WATER MANAGEMENT PALN ON BOARD AS C/O?
- 7 WHAT ARE THE STANDARDS ? EXPLAIN EXCHANGE STANDARDS?
- 8 DRAUGHT SURVEY FULL PROCEDURE?
- 9 WHY MCTC TAKEN FOR +50CM AND -50CM? for increse the accuracy
- 10 HOW TO IMPLEMENT GARBAGE MANAGEMET ON BOARD SHIP AS C/O?
- 11 WHAT ARE THE CONTENTS OF GMP?
- 12 DURING BUNKERING OIL SPILL WHAT IS YOUR ACTION AS C/O?
- 13 DUTYS AS C/O IN RESTRICTED VISIBILITY?
- 14 RULE 19 RESTRICTED VISIBILITY?
- 15 WHAT ACTION IF ALTERATION OF COURSE YOU SHOULD NOT DO?
- 16 HOW DO YOU IDENTIFY YOU ARE GOING TO OVERTAKE?
When coming up with a angle of 22.5 abaft of the beam and you will see only stern light of the other vsI
- 16 FOG SIGNAL POWER DRIVEN VSL UNDERWAY ?
- 17 DURATION OF LONG BLAST? 4-6 SEC
- 18 HOW MENY RULES IN COLREG ?
- 19 WHAT IS RULE 39,40,41?
- 20 DAY AND NIGHT SIGNALS FOR DEEP DRAUGHT VSL,RAM VSL,NUC VSL?
- 21 FOG SIGNAL FOR VSL AT ANCHOR?
- 22 YOU ARE GOING TO DELIVER NEW SHIP FROM SHIP YARD WHAT ARE THE THINGS THAT YOU SHOULD CHECK?
mainly examiner expected to hear familiarization of equipment,ISM checklist implementation,Garbage management training for crew,crew and officers training. stability calculation equipment lodicator test.
- 23 HOW TO CARRY OUT LODICATOR TEST?
- 24 WHAT DO YOU THINK ABOUT YOUR SELF ARE YOU CAPBLE OF TAKING POSITION FOR C/O?

OK CONGRTULATIONS !!! YOU ARE PASS CELEBRATE NEW YEAR WITH HAPPY BEST OF LUCK.

I WOULD LIKE TO THANK ALL MY LECTURES AT CINEC CAMPUS SPECIALY
Cpt Aruna Kotalawala,Mr Shane Sankarnarayana,Cpt Ranjith Perera,
Cpt Krishan Perera,Cpt Mihira de Silva,Cpt Peshala Madagama,Mr.Samadhi,Mr. Saminda,
Mr.Thilak Wikramasinghe AND All My Friends who helped me On every ways.
wish you all the best for those who are facing orals stick to your answer and be confident when giving answers.
Read Shane Sir's Oral book 2-3 times before you go for orals find out more informations on conventions and codes
refer publications from CINEC library.

CLASS II ORAL EXAMINATION

Examiner : Capt M.U.I Pieris

Candidate : E.M.C.P Bandara

Date : 29.06.2018 (Fail)

: 06.08.2018 (Pass)

- 1) Your vessel loaded with grain. Ready for sailing. previous chief officer has sign off. What are the things you have to consider prior to sail as new join chief officer?
- 2) What Precautions need to take while carrying grain cargo in the passage?
- 3) What is mean by "due diligence" ?
- 4) What you mean by Letter of Indemnity?
- 5) What you mean by Indemnify?
- 6) What is P&I club?
- 7) What are the functions of the P&I Club?
- 8) What P&I insurance covers?
- 9) How you are going to load IMDG cargo onboard?
- 10) Can you load IMDG container and reefer container together?
- 11) At port IMDG container leaking and duty officer report to you. what is your action as chief officer?
- 12) What information you can get in IMDG code supplement?
- 13) Where you can find details about ship's cargo gear?
- 14) What are the contents of it?
- 15) What inspections carry out on them?
- 16) Lifting gear inspection intervals?
- 17) How you are going to prepare your vessel for heavy weather?(give answer as Chief officer)
- 18) The GPS failed which are connected to the ECDIS. What is your action?
- 19) How you manage your alarms in ECDIS?
- 20) How to identify official and unofficial charts in ECDIS?
- 21) What are convention, protocol and amendments?
- 22) What are the latest amendments to SOLAS?
- 23) How you dispose garbage at sea?
- 24) What is "From the nearest Land" mean?
- 25) What is baseline?
- 26) What is mean by "Special area" ?
- 27) How you find you are in a special area or not?
- 28) How you manage garbage onboard as chief officer?
- 29) What are the records made in garbage record book for incinerated garbage?
- 30) What MARPOL annex vi ?

- 31) What are the components control by MARPOL annex vi?
- 32) What are the latest amendments for MARPOL annex vi?
- 33) What are the ECAs for MARPOL annex vi?
- 34) What are SO_x levels in ECA and Outside ECA?
- 35) What is SO_x level 3.5% and NO_x Tier III mean?
- 36) What is SEEMP?
- 37) What actions you can take as chief officer to improve Shipboard energy efficiency?
- 38) You see a vessel on your right ahead. what is your action?
- 39) What is Barometric tendency? What is important of it?
- 40) What is UNCLOS?
- 41) What is international waters?
- 42) Rights of the coastal state in EEZ?
- 43) What is Static and dynamic stability?
- 44) How a vessel able to regain its upright equilibrium?
- 45) After a collision one of vessel compartment is bilged. what is your action as chief officer?
- 46) Master has gone ashore. PSC inspectors want to see your SSP to clarify a breach of security. what is your action as chief officer?
- 47) What are the ISM code elements ?
- 48) What is internal audit? External audit? Duration?
- 49) What is the purpose of carrying out a risk assessment onboard?
- 50) What is national legislation?
- 51) What is flag state?
- 52) What you mean by statutory certificates?
- 53) Torrey Canyon full incident?
- 54) What are the recommendations came after that?

Special thanks to Capt Kothalawala, Shane sir, all the other lectures who teach us, CINEC library and all my Batch mates.

Date: 12th March 2018

Capacity: Class II Navigation

Candidate: Amila Tennakoon

Examiner: Capt. Upul Peris

Note: The answers given here are not the full & complete answers. I have mentioned here all the very important points, mostly the examiners are interesting. Hope these key points will help when you guys preparing answers.

1. As a Chief Officer how do you plan & carryout the onboard Drills in effective way?

Company specific Drill schedule + Guidelines as per company SMS & Emergency/ Contingency Manual + Onboard SOLAS training Manuals + Discuss with the Master and Plan the Drill scenario + Do not inform to anybody regarding drill (Only to Chief Engineer, if necessary to plan the E/R works) + Drill should be perform as far as practically as a real situation (SOLAS Requirement) + Sound the General Alarm followed by Announcement through PA system stating that the situation is not real and its only to Drill purpose + Perform the Duties as per Muster list and carryout the Drill + At the end of Drill Briefing should be carryout + Discuss the areas to be improved + Evaluate the Drill by Master.

2. As a Chief Officer how do you assist to Master in a situation of Recovering person from water?

Please refer Shane Sir's Orals Book page no. 100. + It gives all information relating to the answer + Examiner is not interesting about maneuvering & reporting as those are responsibilities of Master + Give answer as a Chief Officer, Chief Officer is the person who is executing the rescue plan & Managing the situation from Deck.

3. From where do you get the information regarding the onboard Cranes?

Registry of lifting gear appliances and items of loose gear.

4. What are the contents of Registry of lifting gear appliances and items of loose gear?

Certificates + Lifting gear information + Modification & Repair details + Inspection carried out + Testing carried out.

5. What are the tests should be carried out onboard lifting gears?

Through examination + Proof load test + Wear & Tear checks (Rocking Test & Grease sampling analyze) + General maintenance checks & inspection as per PMS.

6. What is proof load? & how to carryout Proof load test? How often you have to carry out proof load test?

Load that slightly higher than the SWL but lower than the Braking stress + Dynamic & Static test + after installation, every 5years & After a Repair or Modification.

7. What is the Proof load that has to be used for a crane of SWL 30t?

5t excess of the SWL + 35t

8. As per MARPOL what is control measures and preventive measures?

MARPOL Annex II states Regulation for the control of pollution from Noxious liquid substances carried in bulk while other annexes states Prevention of pollution.

9. What is MARPOL Annex I, III, IV, V, VI?

Examiner needs full description of the names as per MARPOL
Eg: Regulation for the prevention of pollution by oil

10. How do you implement the Garbage Management Plan onboard?

Familiarization with GMP as Chief Officer (Minimizing, Collecting, Processing, Storing, Disposing) +
Check equipment's + Job duties + Colour codes + Placards + Crew Familiarization + Garbage
record book entries

11. What are the entries to Garbage Record Book when garbage incinerated?

Date + Time + Location/ Position Lat. Long. (Start & Stop) + Quantity in m³ + Category + Signature
of responsible person

12. What are the pollutants covered under MARPOL Annex VI?

NO_x, SO_x, Ozone depleting substances, VOC, Particulate matter, CO₂

13. What are the Sulphur emission control regulations & special areas?

Within ECA- not exceed 0.1% m/m + Outside the ECA- not exceed 3.5% m/m + From 1st Jan 2020
with in ECA not exceed 0.5% m/m.

Baltic Sea + North sea + North American ECA + US Caribbean ECA

14. What are the control measures for CO₂ emission?

SEEMP + EEDI + EEOI

15. What As a Chief Officer what are the measures you can implement onboard your ship to minimize CO₂ emission as per SEEMP & what records you maintain?

Voyage planning + optimized ship handling + Hull maintenance + Use of engines + Type of fuel +
Energy management & reporting + Crew familiarization & Motivation.

16. What are the control measures for NO_x emission?

Compatible engine manufacturing + Tier I, II, III NO_x emission as per engine RPM

17. What are the Certificates issued under MARPOL convention?

IOPPC + IPPCNLS + ISPPC + Engine Air pollution Certificate + IEEC + IAPPC + Type approval
certificate for incinerator + Type approval certificates for ODMCS + Type approval certificate for
sewage treatment plant.

18. How do you assist to Master when preparing vessel for ISM survey?

Previous survey report + All items relating to Chief Officer + Crew briefing

19. What are the Distress signals?

COLREGS Annex IV

20. What is Lian?

Give definition in general with examples

21. As per Hague Visby Rules what do you understand "Due Diligence"?

Give definition as per Business & Law notes.

22. What are Goal Based ship construction standards?

Please refer

"<http://www.imo.org/en/OurWork/Safety/SafetyTopics/Documents/Focus%20paper%20on%20GBS.pdf>

23. What is the Application of ISPS code?

Passenger ships + Cargo ships 500GT or more + offshore drilling units + Engage on international voyages + Port facilities serving to the ships engaging international voyages

24. What is Marine casualty & Marine incident?

Please refer MSN 06/2016

http://www.dgshipping.gov.lk/web/index.php?option=com_phocadownload&view=category&id=13:merchant-shipping-notice-2016&Itemid=123&lang=en

25. What is UNCLOS?

Give Definition

26. What are the rights of coastal states on Contiguous Zone?

Custom + Fiscal + Immigration + Sanitary Law

Date: 01st June 2018

Examiner: Capt. S.M.S Bandara

- 1. You receive instructions from charter to load 180,000mt of LNG on your vessel. How do you confirm that this cargo can be load to your vessel?**
Gas cargoes are Volumetric cargo + Get the density from shipper + Divide the Cargo amount from density to calculate volume + Check the ships total tank capacity up to 98% or maximum allowed (Check the Loading Manual) from capacity plan/loading manual + Ships total capacity is more than the cargo capacity then vessel can load this cargo + Check the load line restrictions and draft restrictions a & confirm that cargo can be load.
- 2. Voyage is confirm now, how do you prepare your vessel for loading that cargo?**
Stowage plan + Loading sequence plan including ballast sequence plan + Critical points on loading plan + Loading plan must be discuss with the Master + Briefing to duty officers and deck crew + Loadicator checks + Ullage tables and check lists to be prepare + Loading manual stby + Correction tables stby +
Preloading check list + Cargo tank conditioning as per terminal request + Check ESD, Valve pressure, High level / overflow alarms, Reducers, Local and remote gauge comparison, cargo compressors, Audible and visual alarms, Fixed gas detection system + FFA & Safety equipment's ready.
- 3. How do you start loading?**
Loading agreement with terminal representative + SSSCL + Preloading safety meeting + comply with port regulations + Initial cargo tank survey + Manifold connection & Pressure test + Cargo tank lining up + Communication check + Initial start loading rate as agreed up to minimum + Check the cargo receiving to tanks + Ensure no leaks / Thermal stresses + Increase the loading rate maximum agreed.
- 4. What are the instructions you gave to duty officer?**
Loading sequence plan + Critical stages of loading + Check Manifold, Cargo tank Pressure & Temperature with in the agreed limits + Hourly tank sounding + Proper communication with terminal

- + Regular deck rounds + Regular checks of loading arm position + Ballasting according to the Plan + What occasions need to call to Chief officer.
5. **How do you topping up the tanks up to 0.5m trim with short notice?**
Check the available cargo to load + Check the present draft + Use the loadicator & adjust the amount to be load accordingly + prepare new sequence plan + inform to terminal + Load as per new sequence plan + observe the draft changes from loadicator as well as visually.
 6. **Your loading has been completed. How do you calculate the total loaded quantity?**
No Draft survey + Check the tank ullage + Tank temp/pres + Fwd & Aft Drafts
 7. **Why we need drafts if we are not doing draft survey?**
For Trim and List corrections + Load line zones + Draft restrictions
 8. **After calculations onboard cargo figure and terminal cargo figures are different. What are your actions?**
Recalculation by taking separate set of sounding + Check the ballast tanks/ Fuel tanks + Check the remote & local gauges + Check the initial tank survey calculation sheet + if all are normal the problem arises from constant + Inform Master + Finally LOP
 9. **What are the new amendments to MARPOL annex VI?**
New category of Garbage + Part I/ II of Garbage record book.
 10. **On your watch, receive a warning message of TRS. As a Chief Officer what are your actions?**
Plot the position on the chart relating to the vessels position and measure the approximate distance + check the direction of moving of TRS & Speed + Check the vessels passage & vessel moving to Imminent danger area or probable danger area + Inform to Master + Inform to all departments including available time + Assist Master to find alternative routes + Heavy weather procedures & check list + Prepare work plan to secure the vessel + Carry out the risk assessment+ Discuss with the Master about plan & RA + Briefing to the Crew + Advice Bosun to carry out the plan as soon as possible to secure the vessel + Assess the stability of the vessel
 11. **During the heavy weather one of your davit launched securing gripe parted, What are your actions?**
Adjust the heading to comfortable course to reduce rolling & pitching + Discuss with the Master to put alternative temporary lashing with suitable wire or rope + Prepare RA + Use most experienced & minimum number of crew for the work + Briefing to the crew including use of PPE + Secure the lifeboat with temporary securing wire or rope + One end should be attached with bottle screw to effective tightening + Use the wooden wedges if its need more tight + Inform to all crew members regarding the temporary lashing + Allocate one crew member as per Muster list to remove the temporary lashing in case of emergency + Advice bridge duty persons to check regularly the temporary lashing visually from the bridge if practicable.
 12. **During your watch you receive VHF distress alert, ship in a distress distance 40nm from your ship, what are your actions?**
Listen on VHF CH 16 for 5 min + Collect all necessary information + inform Master + If not ack by CS or RCC Ack by RT + Distress relay or inform CS or RCC + prepare vessel for assist + Enter the details in GMDSS log book.

13. **How do you prepare your vessel for Load Line survey?**

Start with the checking of previous LL survey reports (Most important Item) + All items related to the LL to be checked and verified in good condition.

14. What are the Amendments in 2017 to STCW?

Amendments to STCW Convention (See attachments 7 and 8) Amendments to STCW Convention and STCW Code were adopted in order to revise training requirements for masters and deck officers on board ships operating in polar waters. For seafarers who commence approved seagoing service in polar waters prior to 1 July 2018, transitional provisions were stipulated and will be applied until 1 July 2020. Besides, training requirements for masters, officers, ratings and other personnel serving on board passenger ships engaged on international voyages were adopted.

Applied: on and after 1 July 2018

15. What is Freeboard Notice?

Please refer Shane Sir's Orals Book page no. 291

My sincere gratitude to Shane sir, Capt. Kothalawala and all other lectures at CINEC, and also my friends who shared the knowledge with me & help me throughout.

In the exam, when you giving answer, think as a Chief Officer. Always collect all information relating to the task and then Discuss with the Master. This is very important to mention when you giving answers.

Wish you all the best!

Candidate: - S.Thilakarathna.

Date 21.03.2018

Examiner: - Capt. Bandara

1st attempt- fail

- 1 60000 + or – 10% how do you load tanker vessel.
- 2 What is loading plan,
- 3 60000 + or – 10% bulk cargo coal how do you load.
- 4 What is sequence plan
- 5 Same cargo general cargo boxes and steel coil loading
- 6 What are the information required for loading coal
- 7 What are the danger associate with coal loading,

Date: - 11.04.2018

Examiner: - Capt. Upul peris.

2nd attempt - fail

1. DG loading what are the document you required?
2. What is the different between cargo manifest and cargo manifest and DG declaration?
3. What are the refer cargo document you ask from shipper?
4. What type of surveys for cargo handling gears?
5. Maintain record where you going to record it?
6. How often you change cargo gear wires?
7. What is allowable blood alcohol limit?
8. Primary means of navigation ECDIS, how do you verify ship position?
9. When do you use raster navigation chart?
10. What are the vector chart?
11. Navigation alarm came use paper chart what is the reason for that?
12. What are the ECDIS anomalies?
13. What is alarm management?
14. Ship emit greenhouse gasses what are the measure taken to reduce greenhouse gasses?
15. What kind of record you maintain annex vi?
16. What ship is doing for reduce greenhouse gasses?
17. What type of record you maintain in garbage record book?
18. In MARPOL where does it mention preventive measures?
19. How do you record incineration on board?
20. How do you define to nearest land?

Date:18.05.2018

3rd attempt – pass.

Examiner: - Capt.Bandara.

Time: 0930 to 1600 hrs

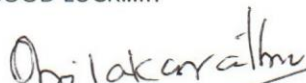
- 1 When you loading DG cargo what are the document required?

- 2 What instruction given to duty officer?
- 3 How do you load maximum quantity 50000 to tanker?
- 4 What information required loading cargo?
- 5 Visual draft is not correct at the end of the sequence as you plan then what you do?
- 6 What is the requirement of ECDIS?
- 7 What is ECDIS on board requirement?
- 8 Use of raster chart?
- 9 Use of vector chart?
- 10 What is ECDIS Anomalies and how it happen?
- 11 How do you manage alarm?
- 12 What are you check in fore peak tank inspection?
- 13 Boson collapse what is your action?
- 14 How do you make life line?
- 15 You receive TRS 500 mile away when you at bridge what is your action?
- 16 TRS passing close by you?
- 17 Colombo to Trincomale going how do you take weather information?
- 18 What is parametric rolling and how you overcome it?
- 19 What are the new amendment to MARPOL?
- 20 When it come in to force?
- 21 New amendment to IMDG?
- 22 Ballast water exchange methods how many?
- 23 What is treatment methods?
- 24 Vessel is due for load line survey how do you prepare ship?
- 25 How do you test water tightness of hatch covers?
- 26 How do you prepare vessel for dry docking.
- 27 What is critical period and critical instant?
- 28 What is territorial water?
- 29 What is base line?
- 30 You have oil spill during loading topping up what is your action?
- 31 What is damage stability? And use of it?
- 32 What is freeboard notice?
- 33 You have zero alcohol policy you found one A/B drunk what your action?
- 34 What are the entries you put in official log book.
- 35 How do you know that your vessel brought up?
- 36 How do you know that your anchor is dragging?
- 37 What is static electricity and how can it occur?

My sincere gratitude to instructors at CINEC: Mr shane sankaranarayana, Capt. Ranjith perera, Capt. Anura kothalawal, Capt. Kanchana Dolapilla, Capt. kolitha Gunawardana and CINEC staff.

I would like to thank all my friend who support and encourage me in many ways by telephone calls and discussion at boarding houses.

GOOD LUCK.....!


S. THILAKARATNA



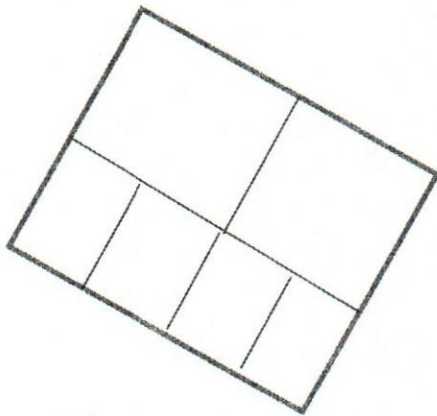
CLASS II-CHIEF MATES ORALS

Examiner : Capt.S.Bandara

Date : 24.03.2016.

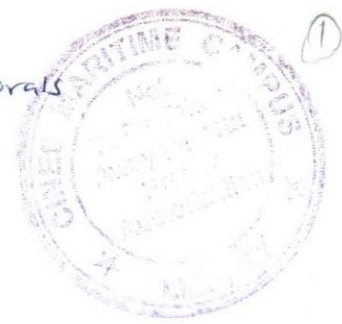
Candidate : M.B.P.P.Fernando.

1. Taking over procedure as a joining chief officer?
2. What is angle of loll?
3. How to correct angle of loll.
- 4.



How to fill the tanks to correct angle of loll.

5. You are in forward station with newly joined fresh cadet for dropping anchor what instructions that you will give to him?
6. When you are on bridge how do you know your anchor is dragging?
7. What are your actions when anchor is dragging at bad weather?
8. How do you load a container? with full procedure
9. What is the angle of repose?.
10. What is the TML?
11. What is the different between winch and windlass?
12. What are the maintenance regarding the winch and windlass?
13. Explain single up gear and double up gear?
14. How do you prepare your vessel for dry docking?
15. What are the items include in repair list?
16. Give examples for repair items, standard items and modification items?
17. What is critical period?
18. What is critical instant?



Date of 1st Attempt: 4th May 2018

Examiner: Captain Sunil Jayaweera

Candidate: Merin Chrisostum

1. Asked an incident happen onboard?
2. Heavy Ballast in port full procedure? Practical Knowledge, many cross questions may expect
3. What is Port use hold?
4. What actions if you taking when in a rainy situation as a chief officer? (During cargo operation)
5. What is Ballast Water Management? D1 ,D2 standards and given a explanation
6. D2 treatment methods?
7. Inspection of the cargo hold? (Bell mouth inspection-check thickness of doubler plate)
8. How to calculate loadable quantity?
9. Grain loading procedure?
10. Stability Criteria's of Grain, LL criteria's for normal ship, parts of timber criteria's?
11. How to load Tea, Coconut, and Rubber? Consider about cargo separation due to taint, bad orders
12. Cargo sweat, Ship sweat?
13. What actions C/O need to be taking when carrying steel coils and steel rods?
14. What is AOL? Action to correct it?
15. Ship handling knowledge? Short turn, Running Moor
16. Anchor cockabill position, windlass lose its lifting power what is your action as a chief officer?
17. (Expecting using a suitable wire and pass through pedestal fair lead and couple with the other windlass and lift by using both)
18. Ship movements? Yawing, Surging, Heaving
19. What is panting? Pounding? Other ship stresses which is experiencing? Racking, hogging, sagging etc.
20. What is Pooping, Broaching? Dangers of them?
21. What is pivot point? Turning circle?
22. What is interaction, squat? Shown by using diagrams
23. What is Grounding? Stranding? Breaching? Clearly identify the differences
24. Colreg? Rule 6, 10, 19
25. Fog signal of Power Driven Vessel Making way through water? Not making way through water?
26. NUC vessel making way through water? Not making way through water? At anchor?
27. Trawler, fishing vessel definition and light and shapes?
28. Power driven vessel at anchor and aground sound signals?
29. Restricted in her ability to manoeuver, WIG craft? As per rule 3
30. What is Best Management Practice?
31. What is Advance quadrant in TRS? Explain the NH,SH advance quadrant
32. What is your action when you are in NH, dangerous quadrant?
33. What is veering? And how to find it?
34. What is enhance survey program?
35. Difference between ENS & Harmonize survey?
36. ENS period?
37. How to carry out Inclining Experiment? Purpose of it? See Shane sirs notes

Date of 2nd Attempt: 25th May 2018

Examiner: Captain Sunil Jayaweera

Candidate: Merin Chrisostum



1. Asked me about above question no 2, 3,18,19,32 which is unable to answer last time
2. How to blank bilges?
3. How to load a Heavy lift vessel?
4. If wire SWL value 25T but cargo is 26T how to load this cargo? Cannot load that cargo
5. What is Breaking Stress? Proof Load?
6. How carried out crane maintenance? Register of lifting appliance and cargo gear?
7. What is PMS?
8. What is Antifouling convention?
9. What is Coating Technical file? Information in that?
10. Technical Data sheet Information?
11. How to change the Paint supplier?
12. What is UNCLOS?
13. What is Base Line? Innocent Passage?
14. What are the rights coastal state have within territorial waters?
15. What are the rights coastal state have within in EEZ?
16. What are the rights which don't have coastal state within in EEZ?
17. What are the rights coastal state have within in Contiguous zone?
18. What are the rights which don't have coastal state within in Contiguous zone?
19. What is "New Ship"?
20. What is "No more favorable treatment"?
21. What is First registry? Second Registry?
22. What is PSC inspection? Flag inspection?
23. What is ISPS Code? Asked few cross questions relevant to ISPS
24. What is EDD? Requirements for EDD?
25. What IMO? Committees, sub committees
26. How a convention coming into force?
27. How accept a convention? Tacit and Explicit acceptance
28. How carryout Dry Docking? Full Procedure
29. What is the purpose having Stern trim? Why cannot having even keel?
30. DD documents?
31. How placing Blocks in DD? How placing blocks in next DD?
32. What is "Dry Dock Spec"?

Please Consider above answers as guidance only !!!

My sincere gratitude to all CINEC lectures and All Friends those who help me!!!

Candidate : Mario De Silva
Examiner : Capt. Upul Pieris
Time : 01Hr 20Min
Result : Pass

Examiner first checked My CDC, Ministry file and confirmed regarding my academic results
Most of my questions were asked by giving a situation and few questions in relation to that situation. I was expected to answer with relevance to that situation and reply as the Chief Officer onboard.

1. UNCLOS Convention, what does it stand for?

United Nations Convention on the Law of the Sea

2. What is Territorial Waters ?

- ✓ What is Base line?
- ✓ What is the right, a vessel has when in Territorial Seas?
- ✓ Explain innocent passage.
- ✓ Jurisdictions of Coast State?

3. What is the area after Territorial Waters?

- ✓ Name?
- ✓ Jurisdictions of Coast State?

4. Describe Ballast Water Convention?

- ✓ What is D₁ & D₂ Standards?
- ✓ Statutory documents as per convention?
- ✓ What are the contents in BWM Plan?
- ✓ Methods of treatment

5. What is MARPOL Annex V?

- ✓ How you will implement the garbage management plan onboard?
- ✓ New amendments to MARPOL Annex V?
- ✓ Procedure of recording Garbage record book after incineration of paper garbage?
- ✓ What will you do with the ash accumulated?
- ✓ Who is responsible for incineration procedure?
- ✓ Where to find if cargo residues are HME or non-HME?

6. What is MARPOL Annex VI ?

- ✓ How does ships pollute Air, types of pollution?
- ✓ Reporting measures that need to be implement?
- ✓ Preventive measures (NOx control) onboard?
- ✓ Preventive measures (SOx control) onboard?
- ✓ CO₂ control measures onboard?

7. Vessel due to load reefer cargo, where to get information regarding the cargo prior accepting cargo?

- ✓ Reefer containers situation?
- ✓ Reefer vessel situation?

8. Vessel due to load DG cargo containers,

- ✓ What are the related statutory documentations required as per SOLAS? With explanation
- ✓ Things to check prior loading?
- ✓ Important information found on DG Declaration (not available in DG manifest) / Main deference?
- ✓ DG container leakage found at sea. Your actions?

- 9. Vessel involved in a collision, forepeak damaged,**
- ✓ How do you go about assessing the damage condition?
 - ✓ Purpose of Damage stability booklet & plan?
 - ✓ Difference between Damage stability booklet & plan?
 - ✓ Storage location for above?
 - ✓ How to use Damage stability book to evaluate damaged stability?
- 10. Marine incident onboard a Sri Lankan flag vessel ,**
- ✓ What is a Marine Incident?
 - ✓ How does it differentiate from a Marine casualty?
 - ✓ Where is it defined?
 - ✓ Marine casualty, whom to report?
 - ✓ How to report?
- 11. Vessel about to be time chartered**
- ✓ Why is it important to the vessel owner that an on-hire survey be done?
 - ✓ Who employs the surveyor for on-hire survey?
- 12. What is a Lien?**
- ✓ Give at least 4 example situations
- 13. Safety Management certificate,**
- ✓ Surveys applicable?
 - ✓ When is it carried out?
- 14. What is ISPS Code**
- ✓ How you implement ISPS code onboard?
 - ✓ Who are the allowed personal to view the SSP?
 - ✓ Who makes the annual ISPS (SSP) review?
 - ✓ What should be reviewed?
 - ✓ Purpose of the review?
- 15. Company requests you to carry out a drill,**
- ✓ Regular fire drill frequency?
 - ✓ How do you plan the drill?
 - ✓ How do you carry out the drill?
 - ✓ Actions after the completion of the drill?
 - ✓ Frequency of enclosed space drill?
 - ✓ Frequency of Davit launch life raft drill?
- 16. What is the national legislation for Merchant Shipping? Revisions?**
- 17. Crewmember drunk on a Sri Lankan vessel,**
- ✓ What is the alcohol limit?
 - ✓ Where is it stated?
 - ✓ Your actions regarding the crewmember?
- 18. Vessel is entering a shallow water area,**
- ✓ What is shallow water effect?
 - ✓ How do you know that your vessel is affected?
 - ✓ What is the action to take?
- 19. What is the document stating all information about vessel cargo gear?**
- ✓ What are the related Audits, surveys and inspections?
 - ✓ What conventions are related?

20. Vessel is not upright,
- ✓ What are the possible scenarios?
 - ✓ Differentiate List and loll?
21. Master tells you that the vessel encountered parametric rolling on the previous voyage before you joined, and to adjust GM accordingly,
- ✓ Explain what parametric rolling is.
 - ✓ How does vessel 'G' behave during parametric rolling?
 - ✓ What does Master mean by adjust GM accordingly?
 - ✓ What can be done, justify your answer.
22. Owners want to get a basic idea of the Vessel carrying capacity for a voyage between A and B. They have provided minimum information.
- ✓ How do you respond to their request?
 - ✓ How do you calculate Vessel carrying capacity?
23. Grain cargo, what do you need to consider DURING passage?
- ✓ What is due diligence?
 - ✓ How does it apply in the above situation?
24. Brand new Vessel on fully ECDIS operation,
- ✓ Limitations of RSDS mode
 - ✓ Procedure of Alarm Management of ECDIS (during navigation Watch)

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My sincere thanks to

- The dedicated lecture panel at CINEC Navigation Department with special mention to Capt Kothalawala,
- Capt. Maura & Capt. Arul Kumar at Mercmarine Training,
- CINEC Library staff for the assistance rendered,
- The few but real friends from 34 / 35 batches who stood by me with encouragement and unrelenting support

Dear mates, for Chief Officer Exams practical approach is expected and confident answers portraying yourself as the Chief Officer is a must.

Plan and structure your answers and present it to the examiner clearly and confidently.

Best of Luck to you!



ORAL EXAMINATION QUESTIONS – CLASS 11

Examiner : Capt. S.M.S. Bandara

Candidate : K.N.U De Abrew

Date : 14.06.2017

Checked my CDC. I have been sailing mostly on container vessels. Examiner emphasis that you should know any type of vessels and begin to ask me questions on container trade.

1. What is IMDG code? Latest edition on IMDG Code & validity (38-16) period of 03 years.
2. What are the document that you need to load IMDG cargo? IMDG Code, Document of compliance (DOC), DG Stowage plan, DG manifest, DG Declaration, If loading marine pollutant marine pollutant declaration. Packing certificate.
3. What are the instruction that you giving to your Duty officer when loading IMDG? Stick to the stowage plan If any changes notify immediately, Check the DG container number against the stowage manifest, Check the labels available on 4 sides of the container, Ensure no leaky container, Ensure the seal is intact. (Examiner satisfied for the answers that I have given)
4. What are the statutory certificates required by container vessel? (Tell all the certificate. If the examiner is satisfied he will stop.)
5. You are given to load 50 000 t +/-10%. How are you going to load this cargo amount? (Full procedure)(Applicable load line, draught restriction)
6. You are on a general cargo ship and you are getting steel coils and steel bars how are you going to plan the loading? When you prepare the sequential plan make sure to check the weight of the steel coil (shipper will provide the details).
7. How can you ascertain the loading operation are in order as you planned.
8. What are the contents of stowage plan and loading plan?
9. You are getting rusted cargo. What is your duty as a Chief Officer? **Read the charter party or voyage instructions to see any clauses are made by charter party about loading rusted cargo. (If any. you can load). As a chief officer you must inform Master to arrange Cargo surveyor and owner to arrange P & I surveyor on board. Let the cargo surveyor to quantify the amount of cargo which is rusted. That document you can attached with "photo evidence" (examiner expecting that word to express by yourself) and prepare the mate receipt in order to clause the B/L. Preserve these documents to avoid any further claims.**
10. You are requested to go forward to drop Anchor?
11. What is Anchor brought up?
12. You have a causality 3° burn ? Action - First aid and Radio medical advise by using Inmarsat phone code 32
13. You are coasting near Sri Lankan waters how do you obtain metrological warnings? By Navtex (can you obtain navtex warning from Sri Lanka.) (Sir since it is operating on 518khz medium frequency it is about 500nm spectrum probably we would get it from Chennai.) SAT C, SPOS (Mainly spos).
14. What are the monsoons in Indian ocean?
15. Case study of Torrey Canyon. What aftermath? Implementing MARPOL Annex 1.
16. MARPOL Annexes.
17. Grain loading criteria
18. What is purging, Static electricity, Topping off, Gas freeing?
19. Entering into heavy weather. What is your action as C/O. (Highlight the check list).

20. OS drunk and lying on the alleyway. (0 alcohol tolerance) what is your action as C/O? **Evidence, escort him to his cabin, Keep another person with him. Inform master and according to the code of conduct Master will take further action.**
21. What are the entries made in Official log book?
22. What is narrative section and what are the entries?(Master's sign on/off, Crew member medicals, Disciplinary matter, Accidents etc)
23. What are the latest SOLAS amendments? (*Ask from Menaka Rajapkshe. He got a magic method of answering*).
24. How do you prepare for a Load line survey? (Examiner need key points to high light which I missed. Therefor folks begin with it. i.e **Check all the certificates are valid. Check any class conditions are imposed, Check the previous survey list any Observance, Non conformities, etc .**
25. What regulations govern your COC? STCW 78 as amended 2010 (Manila Amendments)
26. What is the merchant shipping Act of Sri Lanka?
27. Explain the procedure for implementing Instrument in Sri Lanka?
28. What is FREEBOARD notice and where you keeping it? (Prior sailing freeboard notice pertaining to available freeboard should filled by Chief officer. It is keeping in the ship office among other files and also should be filled in the deck log book front pages.)
29. What is Damage stability and why it is important to Chief Officer? Damage stability means If the ship loses her **water tight integrity** in the way that allows water to flood any compartment in the ship's hull. To check the stable / unstable. To check weather vessel can be refloat, call a salvage or abandon the vessel. And please mentioned the loadicator (some) has facility to calculate the damage stability, Tankers having the facility in the loadicator. Also in such emergency the office has an emergency expert team to give shore advises.
30. Tank inspection fore peak tank (after ESE checklist completed and atmosphere is safe to enter)
31. Bosun found collapsed suddenly. You (C/O) are in side what is your action?
32. You are in a new vessel prepare your vessel for ISM?
33. Ballast water convention? (Elaborate him the full ballast water from adoption why it is adopted, implementation, exchange methods, exchange standard, performance standard, documentation, etc.)

Confidently answer the questions. There are certain places where you going to get stuck that is natural. At that time try to elaborate what you know. (At least you know something about it.) Something If I forget to mention here please forgive me.

My sincere thanks to all my lecturers at CINEC. Thanks to all my friends who encourage me guided me and giving their fullest support throughout.

All the very best.

Class 2 Orals**Date : 14/03/2017****Candidate : R.U. Aravinda Amarasekara****Examiners: Capt. Upul Pieris/ Capt. S.M.S Bandara****Status : Pass****Capt. Upul Pieris (Fail)****Date : 29/01/2018**

1. **You are joining a vessel as a chief officer with a short time period of a handover. What are the main and important considerations you should pay attention during takeover?**
Highlight the most important things first and others at last.
2. **You are on a container vessel and you're arrival of a port for disch/load. How do you go ahead with that?**
Highlight about the numbers of container to be disch and load. Consider about the port rotation and prepare the cargo stowage plan(Bay plan). Talks about the departure and arrival port draft/UKC restrictions if any, and specially regarding load line restrictions. Talks about the Ballast plan, stability condition, SF/BM, comfortable GM.
3. **Prior loading this containers what information you should receive by shipper?**
Bay plan, VGM cert.,

For DG cargo : DG Declaration, DG Manifest, Marine Pollutant declaration. DOC for IMDG cargo, IMDG Code

For Reefer cargo : Reefer manifest, Document of reefer spares availability onboard.
4. **How will you go ahead with DG loading?**
Talks about DOC for IMDG whether given classes are compatible with the loading DG. Referring to IMDG Code check whether you can load this containers on the given locations. Instructions to duty officers.
5. **Will you load DG and reefers together?**
I said as far as possible I will not load them together. Try to load away from each other.
6. **Reason for that?**
Reefers are loaded near to reefer sockets which are electrical hazards. Also connected reefer it has an electrical motors driven. If in case any leakage of DG it might lead to a fire hazard.
7. **What is the difference between DG declaration and DG manifest?**
DG manifest consisting of stowage locations.

8. **What are the contents of DG Manifest?** Stowage location, container number, class, UN number, Load port, Disch port, Packing group, Proper shipping name, marine pollutant, subsidiary risk, Flash point, DG net mass/gross mass
9. **How do you load a marine pollutant container?**
Avoid load on ships sides and aft of the vessel
10. **What are the preventive measures? What are the control measures?** I could not answer.
But the answer is MARPOL ANNEX 1,3,4,5,6 are preventive measures and ANNEX 2 is a control measure.
11. **What are the contents of SOPEP manual?**
Vessel details and general info about the vessel, Emergency action plan, National contact list, Onboard reporting procedure, Oil tanks drawings and pipe line diagrams, Tank sounding drawings, SOPEP equipment inventory list, Training and drill records, Crew familiarization, etc.
12. **What are the frequent changes to SOPEP manual?** National contact list
13. **What are the garbage dumping requirements as per annex 5?** Refer to shane sir's mates orals book.
14. **How do you implement garbage management plan onboard?**
Talks about company policies regarding garbage management and SMS requirements regarding garbage management. Documents to be carried onboard(Garbage management plan, Garbage record book, Garbage management certificate etc). training and familiarization required to crew. Posters, garbage bins and segregation and their locations. Record keeping. Maintaining of garbage room. Strict monitoring of compliance by crew.
15. **What are the garbage categories?** Refer to shane sir's mates orals book.
16. **How do you use incinerator and full procedure?** Plastics, metals, oil generated from cargo spaces or cargo pump room etc prohibited. Machinery space oily rags paper normal rags etc can be incinerated. In garbage record book Date/time and position started, types of garbage incinerated, quantity, time and position of stop, signature of authorized person. When ashes are delivered to shore facilities date/time and location, quantity to be mentioned in GR book. Ensure to receive the garbage certificate with mentioning of such quantities. Same should be logged tallying in GR book.
17. **How do you discharge cooking oil?** Discharge to shore facilities
18. **How do you log down these quantities in GR book?** in cubic meters.
19. **What are the ECA areas for NOx and SOx?** Refer to shane sir's mates orals book.
20. **How do you measure NOx and SOx?** I couldn't answer.
21. **What is SEEMP and use of it as a chief officer? What are the importance to chief officer as per SEEMP?** Refer to shane sir's mates orals book.
22. **What are the latest amendments to MARPOL?**
Came into force 01/03/2018 -Shipper to be declared for operational waste(for solid bulk cargo) whether it is HME or NON-HME which is to be logged down in garbage record book part 1 and 2.
-New category of E- waste introduce for electrical items and batteries.

Note : I highly recommend you to study inside out of MARPOL since this section is a most favorite part of Capt. Upul Pieris. If you struggle around he might go to more deep.

Also he wants you to answer as a real chief officer. Which means use your mouth confidently and also body language as you are a chief officer. Always try to use terms " Sir, I will ensure.... I will do... I will instruct my officers and crew... It is my responsibility... I will not let it happen...

Capt. S.M.S Bandara

Date : 14/03/2018

- 1. You are receiving a telex from the shipper that you have to load 70000t +/- 10% of bulk cargo. What information you required from shipper for loading this cargo and how do you go ahead with that?**

Info. Required- BCSN(Bulk cargo shipping name), stowage factor, TML and moisture content. Port rotation if more than one port.

Check the load/disch port draft/UKC restrictions. Check the load line restrictions. Calculate the loadable amount to that draft/UKC or load line restriction.

- 2. Okay. Now how will you calculate the loadable quantity?**

Loadable quantity = Vessel displacement for that max. draft or whichever the load line displacement - Light ship displacement - Fuel - FW - UP ballast - Reserve - ship's constant etc.

- 3. You are presently at summer zone and intended to transit winter zone and then back again to summer zone. Summer to winter 10 days and winter to summer again 10 days(examiner draws passage on a paper). How will you calculate loadable quantity?**

I will take the winter displacement and deduct light ship displacement, fuel, FW, UP ballast, reserve, ship's constant etc. at present

and calculate the consumption to winter zone which is 10 days and add those amount to above figure and get the loadable amount.

Then check with given quantity 63000t-77000 whether it is compatible or not.

Also take the tank top area for each hold and check whether load density is exceeding or not.

If all above things are okay then I will check with given BCSN by referring to IMSBC Code group of cargo. Brief about Group A,B,C cargo. If it is group A check the moisture content is below the TML. If it is not then the vessel should be exempted for this cargo which means the vessel is specially design for carrying this cargo or additional/special precautions available onboard to prevent cargo shift. In other cases cargo should be refused to carry. If all above are okay then I will proceed for preparing stowage plan.

4. What is cargo stowage plan and content of it?

Final loaded condition at each hold with quantities on it.

Total quantity, Quantities at each hold, description of cargo, port of loading, port of discharging, sailing drafts, trim, SF/BM etc.

5. What is the loading sequence plan and contents of it? Examiner asked me to draw a sample of a sequence plan

It is the plan making for loading/discharging a vessel at each stage/pour to keep the vessel within safe limits of its stability(positive GM, SF/BM, upright etc.)and not over stressing the vessel.

Pour numbers, quantities at each pour, estimated drafts, visual drafts, ballast/de-ballast amount at each pour and tank no, trim, air draft etc. (refer to Refer to shane sir's mates orals book)

6. Why do you need to check the visual draft at end of each pour? To check the loading sequence is not exceeded and cargo operation is going as per the agreed sequence plan.

7. What is your action if your duty officer informs you that visual draft is differ from estimated draft?

Check the ballast sequence is carried out correctly. If it is then it should be the case of loading rate is exceeded. In such cases stop the cargo operation immediately and inform the terminal to follow the sequence plan. Also revised the cargo plan again.

8. What are the documents you need prior departure?

MSDS, BOL, DG declaration and marine pollutant declaration if group B, Fumigation cert., etc.

9. You are on a general cargo vessel and going to load steel coil and rods? What information you required prior loading and how will you go ahead with that?

Dimensions of the steel coil and rods, total weight and individual weights of each coil and rods, ports rotation if more than one discharging ports.

These are heavy cargos. Therefore load density is important. Check the tank top area and take total weights on particular hold and check the load density is exceeding or not. Prepare a stowage plan. Consider stowage requirements if both are loading together in same hold. Normally coils stow on athwartship direction and coils on longitudinal(F&A) direction. Normally Coils will be on 3 layers. There are hot coils and cold coils.

10. How do you load a container vessel?

Highlight about the numbers of container to be disch and load. Consider about the port rotation and prepare the cargo stowage plan(Bay plan). Talks about the departure and arrival port draft/UKC restrictions if any, and specially regarding load line restrictions. Talks about the Ballast plan, stability condition, SF/BM, comfortable GM. Lashings requirements as per cargo securing manual.

11. What is torsional stress?

Stress on the hull due to un even distribution of cargo. Specially in container ships

12. What are the latest amendments to IMDG code? Check the amendments came into force on 01/01/2018

- measurements for carrying lithium batteries.
- 8 UN numbers added for covering polyester resin kits, polymerizing substances both solids and liquids and engines and machinery.
- Engines along with vehicles were previously covered by one UN number. But now two UN numbers given separately.
- Number of new packing instructions were added.
- Special provisions added.

13. Six days after departure you observed 3 degree list. What could be the all possibilities?

- Due to fuel consumption
- Due to fuel transfer
- Due to FW consumption
- Due to touch bottom and water ingress to a ballast tank.
- Possibility of cargo shift

14. How do you correct it? By ballasting/transfer heel tanks

15. You are on a container vessel and you're having small GM. Do you ballast DB tanks?

I said no. Since I'm having small GM my concern is to move the COG vertically up by ballasting wing tanks. Finally reach the comfortable positive GM.

16. On your passage you received a warning that you're encountering heavy weather. What is your action? Refer to shane sir's mates orals book.

17. What is the importance of rigging life lines fwd & aft? How do you rig it?

Placing stanchions on the walk way on the deck and pass the line through it, ends to tight at strong points.

18. What is parametric rolling and how would you overcome of it? Refer to shane sir's mates orals book. Also refer to MSC Res. 1228

19. During bad weather one of your life boat broke it's lashing and start banging. What is your action?

Create a leeway by altering the ship and try to steer on a comfortable course where the minimum effect of rolling and pitching effect. Use my most experienced crew and use extra lashing to the boat. However examiner wants you to say that by using a bottle screw lash the boat. As well as keep a wedge between the boat and the horizontal rubber arm which the boat hull is touching. You may have to draw and explain this arrangement.

20. You receive a warning regarding a TRS. What is your action?

Plot the ships position and TRS center position and probable path of it. Frequent check/log down of barometric pressure and wind directions. Try to get as much as possible information regarding the TRS, analyses them, check the semi circle which the vessel lies, inform the master. It's master's responsibility to decide the avoiding action.

21. What are the antifouling paints using in these days? Self polishing paints, copper mixed paints. (Plz check for more since I'm not much sure about those)

22. Your vessel due of Dry dock. How will you prepare and plan for it? Refer to shane sir's mates orals book.

23. You are due of Load Line Survey. How will you prepare for it? Refer to shane sir's mates orals book.

- 24. How do you check your stability computer's accuracy?** By sample load testing. (Refer to shane sir's mates orals book.)
- 25. You are going to inspect the forepeak tank. What are the main areas and components you check?**
Refer to shane sir's mates orals book.
- 26. You found one crew consumed alcohol as your company is maintaining zero alcohol policy. What is your action?**
Since it is a breach of alcohol policy I will inform master and carryout an alcohol test. If he found above limits we have to take a disciplinary action. Inform company.
- 27. During this inspection you found bosun is suddenly collapsed. What you do?**
Escape from the space ASAP. After that initiate emergency recovery plan.
- 28. One of your crew report to you that his having a chest pain. What is your action?**
Bring him to the ship's hospital. Check the person as per International medical guide. Take a medical history of him. How frequently he has this pain? Has he recently affected with high blood sugar and/or cholesterol ? Check his pressure. Inform master. Seek radio medical advise.
- 29. What document you have onboard for maintaining your deck cranes and other lifting appliances?**
Register of Ship's Lifting Appliances and Loose Gears.
- 30. How do you do inspections as per that?** Refer to shane sir's mates orals book.
- 31. You are about to pick up provisions. What checks you do for your monorail crane?**
General condition of crane, wires, oil levels, remote control working, make sure the handling crew know about the emergency stop. SWL of the crane and compatibility with the loads to be lifted.
- 32. You have slings which are not in your register for lifting appliances and loose gears. What you do?**
I will not use them. Permanently remove them from the service. Make sure I will keep sufficient spare sling in my stores.
- 33. You don't have sufficient slings in you stores?** I will borrow from E/R and check their SWL and use it.
- 34. They also don't have enough slings?** I will inform the master and arrange a shore crane.
- 35. But it is expensive...?** I have to pick up provision for the intended voyage. Since I don't have any option I will not consider about the expenses. Food is more priority.
- 36. What are the D1,D2 standards as per ballast water management?** Refer to shane sir's mates orals book.

<<<<<< Some tips which may help you to get through the orals >>>>>>>>>

- Always try to answer as a chief officer. Which means your answer should consist of management level
- It is common that most of us get nervous and panic in front of the examiner. For avoiding it be at ministry as early as possible. Whenever you get panic convince the examiner to elaborate your answer while drawing and writing on the paper. You can take and keep a blank paper on the table.
- If you couldn't answer a question try to convince the examiner to hold that question until the last. So that you can answer it later. Some examiners accept this. But make sure do not convince for several questions.
- Avoid arguments with examiner. If in case you have gone beyond, say sorry for thousand times. And let him know that you are not argued intentionally. Convince him about your situation. You are stressfull....!

- If you're on the last attempt (3rd attempt) and you feel that the examiner is about to fail you and about to write "FAIL" on the paper, do not worry.. something is better than nothing.. so speak out your condition. All your effort through 1.5 years going to waste if he fails you. Try to make him understand that this is not because of that you're not studied well. It's because you are not remembering that part. But you studied. Show some notes of you regarding that matter. Try to convince him by asking you to go out refresh and come back with the proper answer. I'm sure this will work out if you're good enough and lucky. Most of our students come back with the result they give and keep quiet with sad. Most of the guys don't speak out like this.
- But please do not use this as for your 1st or 2nd attempt. Keep it to the last.....! Also at 1st and 2nd attempt they will not listen to you. So don't try it.
- Always whenever your friends come with questions which led to fail them, go to the lectures and get the maximum correct answer from them. They are there to help and guide you.
- Remember: when answering to each and every question it's not the same way of answering it. You may choose different methods of elaborating your answers.
- My last advice is to write your own orals book. You won't forget things forever. It's by your own hand writing and your way of doing it. So you know whenever you missed out something or forget things easily where to find....!

My best gratitude to our entire CINEC lectures who clinched us to mates level, may be more beyond that... And of course all my mates batch mates who supported me throughout this journey.

>>>> ARA <<<<

ORAL EXAM CLASS 2

NAME YOSHAN PERERA

25/04/2018

EXAMINER CAPTAIN ASIRI HEARTH

STATUS PASS

- 1) How do you prepare a vessel that is entering a port with poor berthing arrangements?
- 2) What is the definition of safe port?
- 3) What is the definition of safe berth?
- 4) How do you assist master during such berthing?
- 5) How do you take over as chief officer when joining for the first time?
- 6) What is the scope of class survey? (*hull and machinery.. explain each*)
- 7) If you are given a certain amount of cargo, how do you plan how to load and decide how much cargo you are permitted to load?
- 8) What does the term deadweight cargo mean?
- 9) What does the term measurement cargo mean?
- 10) What precautions while loading deadweight cargo?
- 11) When navigating in a small river what are the dangers you may face and how to overcome them?

(I mention stern tide difficult to manouver, lack of sea room, ukc, squat, traffic)

- 12) What is the meaning of safety contour settings on the ECDIS?

(*I said it is the value found from the deepest draft plus squat plus ukc minus tide*)

- 13) What is the equation for squat in close waters?
- 14) How to overcome squat? (*reduce speed*)
- 15) How will you decide the right speed to reduce squat effect?
- 16) What is more important maintaining ETA or reducing squat effect? And why?
- 17) What is the type of bill of lading used for the container ships?
- 18) What are the properties of seaway bills of lading?
- 19) What is the stability criteria of a container ship?
- 20) How do you calculate the container ship's GM when it is full of containers?
- 21) How do you plan and load DG containers?
- 22) What instructions you give your OOW when ship is at port and doing cargo ops?
- 23) In case two DG containers that are not compatible are loaded and it is found out at sea what will you?

(*I mentioned that I will prepare all the emergency equipment and inform the company and next port to make sure there are rounds taken and everything logged down*)

- 24) If while loading you find that the ballast is happening much slower than anticipated and the sequence plan is not happening as you planned what actions will you carry out?
- 25) If the transportable moisture limit is exceeded in a cargo what will you do?
- 26) Explain the can test.
- 27) When signing the statement of facts, what should you write before signing it?

(*above info as per my knowledge and ships record, time, date, location, signature, rank*)

- 28) What is block loading?
- 29) What is alternative loading?
- 30) What are the Stability requirements of alternative loading?
- 31) What is the IACS?
- 32) What requirements are needed to be fulfilled to be a full member?

- 33) How many members are there in the IACS?
- 34) If your vessel is collided and the forepeak tank is damaged what will your actions be?
- 35) What is the document the vessel should obtain before sailing with such a damaged condition after the collision?

(short term certificate issued by flag... they will do the risk assessment based on your stability assessment)

- 36) What is the container ship visibility criteria?
- 37) From where you can find the regulations?

(SOLAS chapter 5)

- 38) Are there special visibility regulations for some ports?
- 39) What are the new amendments to MARPOL annex 1?
- 40) What are the new amendments to MARPOL annex 5?
- 41) What is the meaning of cargo manifest?
- 42) What are the amendments of the FAL convention?

(compatible digital formats, single portal access and no discrimination for shore leave)

- 43) What are standards of D1 and D2 under the ballast water management convention?
- 44) What information to be recorded in the ballast water record book?
- 45) How to prepare vessel to dry dock?
- 46) What inspections to do on the hull while vessel on dry dock?
- 47) What inspections on the rudder and propeller while vessel is in dry dock?
- 48) What kind of stability a vessel should have before entering the dry dock?
- 49) How often should the loadicator be tested?
- 50) How to test the conditions of the hatch cover?
- 51) What is ultrasound testing on hatchcover and how is it done?
- 52) What is a charter party?
- 53) What does the surveyor write before endorsing the registry of lifting appliances?
- 54) What inspections should be carried out on the crane?

Thank you to everyone who helped me
Kotalawala sir, Shane sir, and all the lecturers at cinec.
Also special shout out to my batch mates Baskar and Mario for the support,
I wish everyone the very best.

Advice. Read Shane sir's book properly and answer with maximum confidence even if you are not sure of the answer.

25.04.2018

Class II orals

Candidate: Ramachandran Baskar

Examiner: S. M. S. Bandara

Duration: 2hrs

1. What are the documents required for container vessel carrying DG, and what are the instruction that you will give to your duty officer?

DOC+IMDG code + DG Manifest+ DG declaration +Marine Pollutant declaration+ Packing Certificate + other docs

2. What are the changes of latest IMDG code?

38-16 / IMO res.MSC.406(96) contains revised full text to Vol 1&2.

3. Your ship is having 4 port rotation in a voyage and how would you plan a cargo loading on a container, and what are the important things you should take into consideration when making the loading plan?

4. Load line calculation with passing summer zone to winter zone 10 days, then to summer zone 10 then he asked what will be the maximum loadable cargo?

This examiner does not like long stories, give him a practical answer according to the way he ask.

5. Vessel completed loading with marginal stability, destination in 15 days, how do you maintain good stability throughout?

Calculate stability number of stages, Consumed F/O replace by SW ballast on same level tank of G.

6. Vessel completed loading upright and after 2 days of voyage at sea you find 2 degrees of list. What are the probable cases and what the corrective actions?

Tell him all the probable cases for the list, and what actions you going to take accordingly.

7. 1m swell how do you read draught?

Crest reading + trough reading + average + times as much as possible

8. Use of "Damage stability" and what information's you can obtain?

Ascertain the stability condition in case of hull damage, and make sure weather the vessel will be safe to stay or to leave the ship.

9. How many load lines that a ship can have?

A ship can have many load lines but at a time she can use only one load line, what ever the load line she is using at present should be painted on the hull. When she does the renewal survey she can get the all load line certificate endorsed but she should only keep the certificate for the load line she is currently use on the certificate file others should we kept separately.

10. what are the documents required when loading grain cargo?

11. how can you ascertain the loading operation are in order as you planned?

12. what are the contents of stowage plan and loading plan.

13. Grain loading criteria?

14. how a master can prove that the vessel is complying with stability criteria?

use of grain stability calculation form.

15. Heavy Wx life boat Grips parted action?

Comparable Course + Renew grips + Inform crew

16. New fleet brand new ship Implementation of ISM?

Interim DOC + Interim SMC + SMS Manual + Posters + C/L + Risk assessment + Training + Drills + Records + etc....

17. Up on receiving Distress message on MF frequency, action?

2182 + Relay + all available means + RT contact + Record

18. what are the duties of on SAR, SMC, OSC?

Refer imsar volume 3

19. what is purging, topping up, gas freeing on tankers.

20. How to correct wrong entry in official logbook?

No strike through + No correction pen + Re entry + witnessed

21. OLB entries?

Open day + Owner details + Master details + etc need at least 10

22. You are in Taiwan strait 800 nm SE Typhoon Your action?

Probable / Imminent danger zone + Heavy wx C/L + Securing + Inform all departments

23. Zero alcohol policy, AB fully drunk, port watch, you see him lying on deck action?

Witness + evidence + record + Off duty + Formal warning + OLB + Dismissal

24. New amendments to MARPOL annex v?

GRB + 2 parts + e-waste + Cargo residue HME + non HME

25. Implementation of garbage management on board?

Meeting + training + Records + posters + Segregation + insist crew importance of topic

26. what are the latest amend solas?

27. Prepare vessel for load line Survey ?

Previous defects + certificate + check all load line items + Specially water tightness & markings.

28. How do you test water tightness of hatch covers On board ?

Light test + water test + procedure

29. Fore peak tank inspection ?

Collision bulk head penetration pipe welding seam + Air vent + Fwd manual v/v + etc.....

At any case don't say you will check bell mouth as per him bell months are only found on tankers on cargo tanks.

30. Bosun collapse in front of you in the FPT, action?

Run away + call help + st-by entrance + Bridge + 2 BA support bosun

31. AB back pain, action?

History + Medical certificate + Inspect + International medical Guide + Radio Medical advice

32. Lifting gear details, how to find, test procedures?

Registry of lifting appliances and Items of loose gear + static + Dynamic + proof load test

33. What for MLC2006 on board?

Improve sea farer's working and living condition.

34. Chief mate FWD station, cannot heave up anchor what will you do?

Check windless oil, pressure + 2 pumps + swing the BOW + Head towards anchor from all directions.

35. Ballast water management plan and standards?

Important contents + D1 + D2 + 200 x 200 or 200x50 + 95% + 10 via org. m³/ml/ 50 micro m + etc.....

36. Explain rule 10 and 19?

37. what is freeboard notice?

38. what is anti-fouling convention?

39. What are paints used as anti-fouling?

40. what is UNCLOS?

41. what is innocent passage?

42. how you plan deck maintenance on board?

43. how you train a new cadet on board and what instructions you give him?

44. what is fund convention?

45. Explain running moor and standing moor?

46. what is critical period and critical instant?

Consider your self as the chief officer and give confidence answers.

My sincere thanks to all my lecturers at CINEC, and all my friends who gave the fullest support throughout.

All the best guys.

Examiner: Capt. Sunil Jayaweera

Candidate: Thamira Gammanpila

Date: 26/03/2018

Class II – Failed

Started with a short introduction of yourself. Type of ships been.

1. How to load a car carrier?
(I have been on a car carriers and tankers. He asked about how to calculate the loadable quantity on a car carrier)
2. How you prepare the vessel for loading?
3. What are the tests & requirements for the bulk head doors on a car carrier?
4. Contents of loading plan & stowage plan?
5. What is load density?
6. Information need from the shipper when loading a car carrier?
7. Documents you need before departure as a chief officer?
8. How you load grain?
9. What document you need before and after loading grain?
(He said there is a document which we need to fill up before loading grain- wanted to know the name of the document- I couldn't answer it)
10. Grain securing methods?
11. Grain criteria?
12. In rules he asked about a situation where the own vessel is in doubt in narrow channel and what is your action?
- Told I will slow down my engine and sound 5 short and rapid blasts.

Then he asked what is the duration of sounding the whistle?

-Told that every second I will sound.

(He was not satisfied with the answer I have given, he said he has to fail me since I don't know rules and the previous question "document required for grain loading" he has to fail me)

2nd attempt - Passed

Examiner: Capt. Asiri Herath

Date: 11/04/2018

Short introduction about yourself.

1. How you take over as a chief officer in a tanker?
2. Responsibilities as a C/O and priority areas you need to consider while taking over?
3. How to calculate loadable amount on a tanker?
4. How you prepare your vessel for loading?
5. Contents of loading plan and stowage plan?
6. How you prepare the vessel for arrival port?
7. What are the documents you need before departure as a C/O?
8. How you prepare for the tank inspection?

9. How you inspect a cargo tank/ ballast tank?
10. What are the main areas you inspect when doing trunk inspection?
11. How you prepare for the load line survey?
12. TRS avoiding actions?
13. Weather associated in Bay of Biscay?
14. Your vessel ran aground, what is your action?
15. Duties of C/O in a pollution incident?
16. Contents of damage stability booklet?
17. Entries in official log book narrative section?
18. Type of agreements?
19. Standards of Ballast water management plan?
20. How you treat ballast water?
21. How you find how much area to paint on superstructure?
22. What is the MARPOL annex VI latest amendment came on 1st march 2018?
23. What is LOI and note of protest?
24. During ISPS audit, You got a NC (non conformity), what is your action?
25. Case study on MSC Vasco de Gama?
26. What are the findings on above vessel?
27. Vessel is going to anchor in heavy weather condition, how you plan as a C/O?
28. What are the IMO committees?
29. What are the IMO sub committees?

Good luck all...

Candidate: P.K.B.Dharshana Levan (Batch 34) CLASS II

Date: 08.01.2018

Examiner: Capt. Asiri Herath

First attempt

1. **What are the duties of Chief officer?**
2. **You joined the ship, you have taken over the duties and at the completion of the loading vessel is overloaded. What is your action?** For this question my answer was incomplete. Following can be done- Check draft survey; calculate how much it is overloaded; Inform master, He will inform P& I club for advice, First option to reduce fresh water or bunker. Final option is arrange to discharge cargo by assistance of P& I Club. Vessel will have to pay penalties and Load line certificate will be suspended.
3. **Load line calculation-** For this questions there are many arguments. Three methods have been used. Different examiners expect different answers. Generally you have to calculate that the loadable amount and to prove it does not exceed the maximum values for all Load lines you are going to cross. (In the class we did only calculation part; not the proof.)

Date: 25.01.2018

Examiner: Capt. Sunil Jayaweera

Second attempt

1. **Load line calculation**
2. **What is TPC? For what it is used for? What is FWA? DWA? Formulas..**
3. **What is Volumetric Heeling Moment? Where you find it?** Assumed Heeling moment cause by shift of Grain. Given in Grain loading manual. (assuming 15° of heel for Full compartment and 25° for partly filled compartment)
4. **How you check stability with VHM?**

Date: 23.02.2018

Examiner: Capt. Gamini Wilson

Third attempt

1. **You are on a vessel at Colombo bound to Scotland, you have Rice in bulk to load. Master asking you 'Chief how are you going to load this cargo'? (70000 gt vessel, Cargo 50000t to load)** Examiner expected me to check whether this cargo can be loaded or not. Convert weight into volume divided by Stowage factor. Check with total volume whether we can load. Check sample loading conditions in loading manual. Distribute cargo on loadicator, check for SF, BM, GM, Trim, draft, upright. Check stability criteria. Check weight on each hold divide it by tank top area to check load density not exceeding.
2. **Stowage Factor/Load density definitions**
3. **What are the ventilation requirements for this voyage?** Ship will be crossing from warm to cold climate. Ship sweat will occur. Ventilation to be carried out. Hold temperatures to be recorder at the loading (asked me what is Ship sweat while answering)
4. **What is Life boat Dynamic test?** Put weights equal to 1.5 times of the break capacity, lower at full speed & apply break. Then lower full speed all the way. Check for deformation.
5. **Does gangway need a certificate? Does pilot ladder need a certificate? Yes**

- 12
6. **How to load test gangway?** Put weights equal to describe in gangway certificate check by lowering & hoisting, holding on different angles.
 7. **What is ballast water exchange? Exchange methods, performance standards**
 8. **What are the treatment methods? How to treat?** For this second question I couldn't answer as he expected (probably expecting performance standards -micro organism quantities)
 9. **IS Stability criteria/Grain stability criteria**
 10. **What is MLC?**
 11. **How to test fresh water? How often?** Take sample & send to laboratory. If on board test facilities available carry out test. Testing interval not specified. Do as per SMS.
 12. **Vessel grounded on a river What is your action?** General procedure
 13. **You take sounding one tank flooded what would have happened? What action?** Damage stability
 14. **What is Innocent passage?** Foreign vessels are free pass through territorial waters.
 15. **What is Territorial waters?**
 16. **How to test Lifting appliances? How often you test? What are the content of Register of lifting appliance & loose gear?** Annually and 5 yearly. Put weights equal to proof load check on different angles & swing around.
 17. **What are the content in Cargo securing manual?**
 18. **Contents of Official log book?**
 19. **During ISM audit life boat davit found damaged?** This is a major Non-conformity. Before sailing It has to be rectified.
 20. **Can ISM Certificate be suspended due to this?** Yes, If not rectified or downgraded to minor non-conformity.
 21. **What is the most relevant Annex of MARPOL for Ch.Officer?** Annex V
 22. **What are the content of Garbage Management Plan? How you implement?**
 23. **What are the new amendments to Annex V?** New garbage categories e-waste/Cargo residues Harmful for Marine environment /Cargo residues not Harmful for Marine environment.
 24. **What is CLC?** Civil liability convention for oil pollution damage
 25. **What is SUA Convention?** Suppression of unlawful act against safety of navigation.

My sincere gratitude to Instructors at CINEC; Mr.Shane Sankaranarayana,Capt.Aruna Kothelawala, Capt. Kanchana Dolapihilla,Capt.Kushan Samarakkody,Capt.Ranjith Perera,Capt. Kolitha Gunawardene, Mr.Rupasinghe.

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Thanks to support staff and Library of CINEC.

CLASS II ORAL EXAMINATION

Examiner: Capt. Gamini Wilson

Candidate: RangaBoteju

Date : 09.03.2018

1. Certificates required for loading a Gas carrier ?
2. Stability criteria for Gas Tanker ?
3. Gas Tanker Loading procedure ?
4. Gas tanker cargo calculation procedure ?
5. What is Constant ?
6. Where to find load line zones ?
7. Draw me and show Loadline Marks?
8. What is Gross tonnage(GT) ?
9. How to carry out Draft survey ?
10. Departure documents ?
11. Malt(grain) loading procedure ?
12. Stability criteria for grain ?
13. How to assess the stability of grain ship (wanted me to draw the table and explain)
14. What is AOR ?
15. What is Stowage factor ?
16. MARPOL annexes and their certificates ?
17. What are the ECA areas ?
18. Sulphur limits in ECA areas ?
19. What is MARPOL Annex 5 ?
20. How to manage garbage onboard ?
21. Explain SEEMP ?
22. Duties of C/O under SEEMP ?
23. What is the anti fouling paint you use ?
24. What is Unclos ?
25. What is Innocent passage ?
26. How to Train ~~to~~ crew to handle imdgcargo ?
27. New amendments to IMDG code ?
28. New amendments for MARPOL ?
29. New amendments for SOLAS ?
30. Barometric pressure falling 3mb. What is your action ?
31. Explain Buys ballots law?
32. Avoiding action when you are no the path ?

33. Action during Grounding ?
34. Explain Damage stability ?
35. Contents on damage stability booklet ?
36. What is P force ?
37. Your action during Oil spill ?
38. How to ~~your~~ ^{your} train cadet ?
39. Piracy reporting around the world ?
40. what is LRIT ?
41. What is MRCC ?
42. What is Port state ?
43. What is flag state ?
44. Entries on official log book ?
45. What is Class ?
46. What is IACS ?
47. Recent marine incident ?
48. Responsibilities of C/O as per STCW ?
49. GMDSS log book entries ?
50. GMDSS daily weekly Monthly tests ?
51. Functions of IMO ?

I would like to thank all Lectures at CINEC. And all my Batch Mates at CINEC.

ALL THE BEST!!!!!!

ORAL EXAMINATION QUESTION – CLASS II,1st day,

Examiner: Captain Asiri herath,

Candidate: K.Mahendra Gunawardana,

Date: 15 January 2018,

Status: Fail.

- 01) How you implement MLC on board?
- 02) What are the benefits for sea farers from MLC?
- 03) What is crew complaining procedure?
- 04) How you keep records about crew complaining procedure?
- 05) Crew complaining to you regarding quality and quantity of food, what is your action? And also company not agreed to increase witting also. I gave him lot of option to over come this situation. but he was not satisfied. Finally I realized taking some food items from cheaper places (like fruits from African countries). Examiner accept that answer.
- 06) How you prepare cargo holds for loading?
- 07) And he gave me a load line calculation?

2nd day,

Examiner: Captain Upul Pieris,

Date: 7th February 2018,

Status: Pass.

- 01) Examiner ask me about load line calculation with previous examiner?
- 02) Examiner ask me to do same load line calculation with same figures?
- 03) Examiner ask me to prove my loadable quantity with another method?
- 04) From where you can find load line zones?
- 05) What is the meaning of word “due diligence”?
- 06) Where you can find this word?
- 07) What is ENC?
- 08) What is ECDIS anomalies?
- 09) How you identified that?
- 10) How you manage your alarms on ECDIS?
- 11) What is safety depth, safety contour, deep contour?
- 12) How you make sure ECDIS accuracy?
- 13) What are the modes on ECDIS?
- 14) What is MARPOL annex VI?
- 15) What are the SOx limits in ECAs?
- 16) What you mean by %m/m?
- 17) How you categorized MARPOL annexes as control and preventive measures? Giving guide lines to control measures in Annex I and preventive measures in other all Annexes.
- 18) What are the Distress signals?
- 19) Where you can find those?
- 20) What is maritime lien?
- 21) What is time charter, Voyage charter?
- 22) What is delivery survey, re delivery survey?

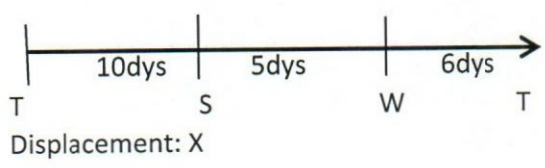
Thank you very much all the lecturers at CINEC Maritime Campus (Mr Shane sankanarayana, capt. Aruna kothalawala, capt. Ranjith perera, capt. Dolapeella, capt.kushan samarakkodi) and all my friends (Nuwan, Boyagoda, Levans, Sanjeewa, Rahim, Dilakshan, Muthumala, Ukwaththa, Thilakararhna, sadaruwa, Mudalige, Balasooriya, Thisera, Fernando, Pushpakumara) who gave me support and courage.

Wish you all the best mates.....

Candidate: M Chathura M De Costa
 Date: 30.01.2018 1400 Hrs
 Examiner : Capt. Sunil Jayaweera
 Status: Pass

- 1 Tell me about yourself?
- 2 what's the Difference between Container and Bulk Carriers? (documents)
- 3 What is ESP file (enhance programe)?
- 4 What are the contents in the shippers declaration?
- 5 What is the most important detail in the shippers declaration?
- 6 What type of bulk cargo we cannot load without having compliance certificate?
(Group B)
- 7 What do you consider when loading bulk cargo?
- 8 define Load density, stowage factor ?
- 9 How to load volumetric cargo?
- 10 What is heavy dense cargo?
- 11 explain how do you proceed with load line restrictions ? (procedure)

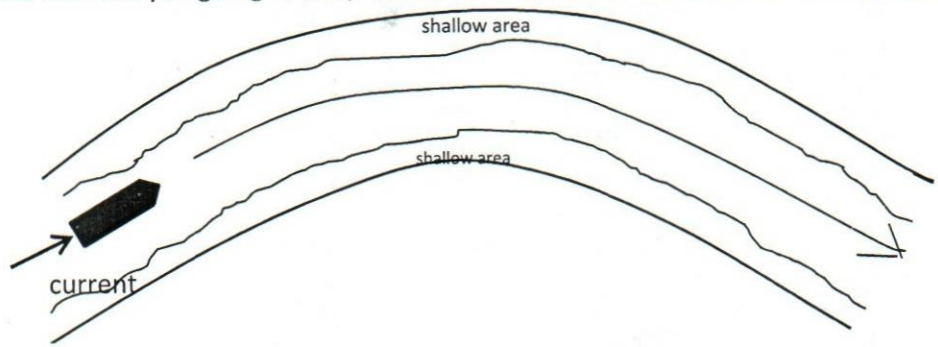
consumption: FO: ROB:
 20t. FW: 10t FO:3000t, FW:400t



- 12 What is TML , why it is important?
- 13 What is VHM (volumetric heeling moment) how do you calculate?
- 14 What do you do if you are not in the maximum permissable limits?
(Reduce quantity or securing methods)
- 15 what are the Documents required for container vessels?
- 16 Define fishing vessel, fishing vessel trawling lights, when hauling nets?
- 17 What is differece between trawling and other than trawling & day signals?
- 18 What are the distress signals?
- 19 How do you anchor and avoid swinging? (standing moorning)



20 How are you going to keep the vessel in center of the channel? (accelarated turn)



- 21 What is Dynamical and statical stability?
- 22 What is the connection between GM & DEI?
- 23 What is CLC 69 and CLC Bunker?
- 24 Define Cargo sweat and ship sweat, how do you carryout ventilation?
- 25 What is the difference between TRS and Typhoon? Which one is the strongest?
- 26 What is new to ballast water convention: (D2 standards)
- 27 What are the GMDSS areas, Carriage requirements in area A4?
- 28 What is first registry and second registry?
- 29 Can you change coating in your ship?(Yes), How?
- 30 What is the heighest PSC deficiency code? (Code 17)

My sincere gratitude to all cinec lecturers .

Special thank to my beloved friend udara malin ruwanpura without your dedicaiton this won't be successful.

Aravinda,krishan,deluxan,gammanpila,jaliya,isuru,gayan,madushanka all my friends and Cinec librarian mrs. poornika chandrawansa for helping me 1g me to pass class II orals.

Class II Orals

ND
class II orals

Date: 16th Jan 2018

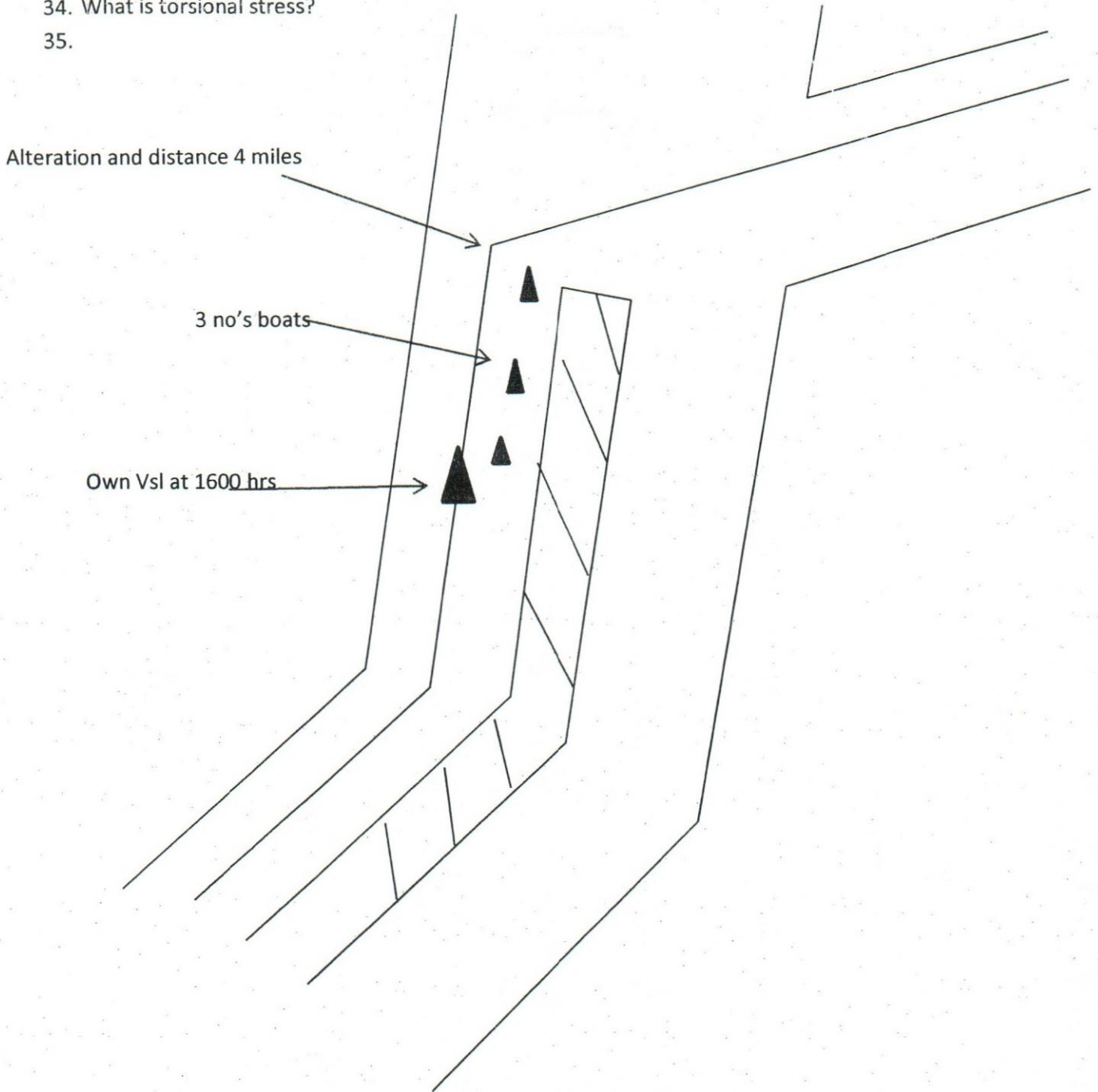
Examiner: Capt. S.M.S. Bandara

Candidate: K. KRISHAN MADHURANGA

Status: Pass

1. You received telex from shipper to load 90,000 +/- 10% , how will you go ahead with it?
2. Ok, you calculated the cargo quantity. Now how you going to load that amount?
3. How you make loading sequence plan?
4. What are the contents of loading sequence plan?
5. Why you need to write observed draft at end of sequence, on the loading sequence plan?
6. What if the observed draft is different from calculated?
7. What is stowage plan and content of it?
8. What document will you get after loading bulk cargo?
9. What are the out turn documents?
10. You have to load 50,000 tons grain. How will you plan this?
11. After loading grain you have to departure at even keel. To make ship even keel you have to have two partly filled hold and you can not avoid it. What will you do?
12. Explain grain securing methods.
13. How will you plan loading tanker?
14. How will you check loaded quantity? What information you need for calculation?
15. Explain how you calculate.
16. How you carry out draft survey?
17. How you going to upright the vessel?
18. What is static electricity? How you avoid it?
19. How you prepare for load line survey?
20. You are at anchor, depth about 50m. now you have to heave up anchor, but the anchor not coming up. What will you do as a chief officer?
21. How you proceed to anchoring in heavy weather as a chief officer?
22. Company zero alcohol policy, OS found drunk during off duty. What will you do as a chief officer?
23. How you carry out tank inspection?
24. What are the critical areas of a tank? How will you find those?
25. Boson collapsed inside the tank. He was ahead of you. What will you do?
26. How many load line the vessel can have?
27. You bunkering with a barge, at anchor. Bunker hose burst on barge side. Oil pollution from the bunker barge. What will you do?
28. What are the new amendments to MARPOL?
29. What entries in Official log book?
30. What is free board notice?
31. Content of Register of ship's cargo gear and lifting appliances?
32. What is the use of damage control?

- 33. What regulations came after the accident of Costa Concordia?
- 34. What is torsional stress?
- 35.



Vessel transiting TSS Dover, You came on bridge at 1600 hrs. 2nd Officer is struggling with boats, to take starboard alteration as per panned route. What will you do?

(My answer: I will check vessel position, and associated dangers around the vessel position on chart. Check radar, positively identify the targets on radar and visual as well. 2nd officer having operational level certificate, I will be having management level certificate. I will take over the watch, speak under the microphone of VDR "2nd Officer I am taking over the watch", ask him to log down as well. Since it is Dover strait I will be having engine on Stand by, Reduce speed, let all boats to get clear. Then take the alteration.

Oral Examination-Class II Deck

Candidate: P.D.N.P Jayathilake

Examiner: Capt. Asiri Herath / Capt. M.U.I. Pieris (Fail/Pass)

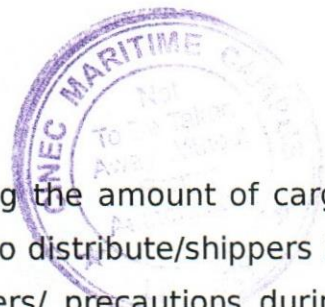
Date: 08.11.2017/18.12.2017



- 1) What were the Vessels you have sailed on?
- 2) How do you take over the duty as a CO?
- 3) After taking over you are bound to North Atlantic on winter season. How do you prepare your Vessel?
- 4) How do you get messages about ice?
- 5) What are the warning signals of ice area?
- 6) Then you will get message that visibility may reduce during voyage. How do you prepare your Vessel?
 - a. (He was expecting only important things about stability/ cargo care) additionally all other precautions)
- 7) During winter season and also in R/V you will see a target on radar. What are your actions?
 - a. (He was expecting the answer from acquire target on radar and checking on both radars)
- 8) What can be the target?
 - a. (I said all possible answers-Vessel < 20 m, sailing) and Ice. Then the examiner said I won't be hearing any fog signal so it can't be a vessel. He was not satisfied
- 9) Next voyage you will get instructions to load 50000 T bulk cargo. How do you prepare?
- 10) Then he gave me cargo calculation to do in front of him.

Day 02

- 1) He started to ask questions which I couldn't answer last time
- 2) What does it say in rule no: 19?
- 3) Fog signal of vessel > 200m at anchor?

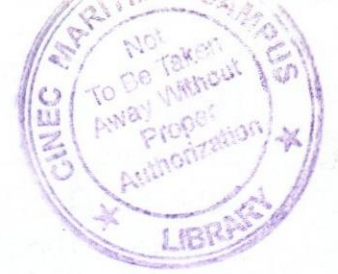


- 4) Light signal for trawler at anchor?
- 5) Full procedure of loading grain?
 - a. (You should start from documents / checking the amount of cargo to carry (L/L and draft restrictions) volume wise how to distribute/shippers instruction/ hold preparation/ instructions to duty officers/ precautions during loading/ fumigation)
- 6) When I said about fumigation he asked how do I prepare for that?
- 7) What are the documents you need to check at the end of fumigation? (All procedures / documents about fumigation are in BULK CARRIER PRACTICE)
- 8) What are documents required to load IMDG from shipper?
- 9) Contents of DG declaration?
- 10) Shipper will give 20 DG containers to load, how do you prepare?(I was telling about all procedure including checking the segregation table) Then he asked cross questions
- 11) You have 15 reefer containers together with DG to load. How to check the location? (He was expecting the answer about checking the container location from DG manifest)
- 12) How do you carry out garbage management on board?
- 13) What are the new regulations for Annex 5 ?
- 14) What are the new amendments of GRB ?
- 15) BWM standards?
- 16) What is loll and difference between loll and List?
- 17) What is Stable/Neutral/Unstable equilibrium? (I was asked to draw them on GZ curve)
- 18) Connection between DEI and GM?
- 19) SOPEP manual updates?
- 20) How frequent you will update national contact list ?
- 21) What is SMPEP?
- 22) What are the updates?
- 23) How do you assist master to implement ISPS on board ?

- 24) You found a stoway on board , according to what convention does it say about stoway and how to act?
- 25) Master instructs you to prepare the vessel for recover a person from water. How do you prepare?
- 26) What are the content of the plan?
- 27) What are the liability conventions?
- 28) What is FUND convention and LLMC (Limitation of Liability of Maritime Claim)
 - a. (He was expecting only the basic idea)
- 29) What are the weekly tests you will check on life boat?
- 30) How to test launching appliances and what are those?
- 31) Frequency of rescue boat drill?

YOU PASS THE EXAMINATION... WISH YOU ALL THE BEST!

Special thanks to Capt.Kothalawala,Mr.Shane sir,CINEC library, CINEC simulator and my batch mates.



CLASS - II ORALS EXAMINATION

Examiner : Capt. Gamini Wilson

Candidate : H.A. Geeshan Hettiarachchi

Dates : 07/12/2018 & 08/12/2018

Duration : About 4 ~ 5 Hrs

- 1) What is Bill Of Lading?
- 2) What is close bill?
- 3) What are the terms you can use when Shipper needs clean bill & you have some remarks?
- 4) What are the main function of Bill of Lading?
- 5) What is Mates receipt?
- 6) Explain Shipper, Consignee, Consigner,
- 7) If buyer wants to buy some cargo from seller, what is the procedure?
- 8) 30000GT Dead weight calculation?
- 9) How do you load bulk carrier?
- 10) What is IMSBC code?
- 11) What is Blue Code?
- 12) What is statical / dynamical stability?
- 13) How do you test Loading Computer?
- 14) Who approved Loadicator?
- 15) What are the input details & details you can take from it?
- 16) Grain loading full procedure?
- 17) What are the dangers associated with grain, while loading?
- 18) Explain Angle of repose, T.M.L., S.F., Load density?
- 19) Grain stability criteria?
- 20) Explain briefly how You prove these criteria are complying the VSL?
- 21) How do you secure grain?
- 22) What is saucering?
- 23) What is initial GM?
- 24) What is MCTC?
- 25) What is IMDG code?
- 26) Content in Supplement?
- 27) How you load IMDG cargo?
- 28) What are the instruction you give to your officers & crew regarding loading DG?
- 29) What is DOC?
- 30) Can you accept if any DG pkg is coming as ship's stores witch in not in the doc?
- 31) How you act during DG spillage as a chief officer?
- 32) Hoe you load Heavy lift?
- 33) How do You make sure all the operation is going safe?
- 34) What is list & heel?
- 35) What is Angle of Lol, How do you find it, Corrective action?
- 36) What are the maintenance for cranes, Intervals, Dynamic test Static test?
- 37) How you Secure Heavy cargo? (Cargo securing manual, Shipper's instructions, expecting weather, voyage duration, CSS code)
- 38) What is CSS code, cargo securing manual?
- 39) During cargo ops one container has fallen down to the sea, As a chief officer your action?
- 40) Content in SSP?

CLASS - II ORALS EXAMINATION

Examiner : Capt. Gamini Wilson

Candidate : H.A. Geeshan Hettiarachchi

Dates : 07/12/2018 & 08/12/2018

Duration : About 4 ~ 5 Hrs

- 41) How you minimize security threats?
- 42) You are bunkering outside port area with small vsl, how you comply security?
- 43) Action as a Ch. Off. on Bunker ops?
- 44) What are the action to be taken during anchor dragging?
- 45) Emergency anchoring procedure?
- 46) Maintenances on Windless?
- 47) What is PMS?
- 48) What is ISM & SMS?
- 49) How do you carry out ISM audit?
- 50) What are the statutory certificates?
- 51) What is flag state?
- 52) What is N.C. / M.N.C. ?
- 53) What are the corrective action for those?
- 54) What is Class?
- 55) How you carry out Safety Equipment Survey?
- 56) What do you have to check in life boat?
- 57) How often you have to carry out the drills for Life boat, Security, Sopep, Man over board?
- 58) Simulation launching Procedure for F.F.L.B.?
- 59) You found AB has drunk, What is your action?
- 60) What is official log book?
- 61) Entries in Narrative section?
- 62) Deck log book front pages entries?
- 63) Deck log book daily entries?
- 64) GMDSS Entries?
- 65) On VHF you received DSC Distress alert, What is your action?
- 66) Explain On Scene Coordinator?
- 67) You found one crew member has collapse in cargo hold no-1, Action?
- 68) What is new amendment regarding Enclosed Space Entry? E.S.P. on 1/3/2018
- 69) What is Root Cause Analyze?
- 70) Dry docking procedure with cargo?
- 71) Dry docking interval?
- 72) What is E.D.D.?
- 73) What is critical period?
- 74) What is "p" force?
- 75) What is virtual loss of GM?
- 76) Marpol Annex-2?
- 77) Why Annex-2giving only control measures?
- 78) Discharging procedure Annex-2?
- 79) What are the new amendments foe Annex-5?
- 80) How you manage Garbage on board?
- 81) Who need to approve G.M.P.?

CLASS - II ORALS EXAMINATION

Examiner : Capt. Gamini Wilson

Candidate : H.A. Geeshan Hettiarachchi

Dates : 07/12/2018 & 08/12/2018

Duration : About 4 ~ 5 Hrs



- 82) What are the certificates coming under Annex-6?
- 83) What are the responsibilities of Ch. Off. under Annex-6?
- 84) What is SEEMP?
- 85) What is EEDI?
- 86) What are the Annex-6 Special area & what for?
- 87) What is UNCLOSURE?
- 88) What is innocent passage?
- 89) How do you gas freeing on tanker?
- 90) What is IMO, Committee & subcommittee?
- 91) What is Protocol?
- 92) Explain Draft Survey full procedure?
- 93) Explain E.S.P.?
- 94) What are the surveys, Certificates & time intervals for E.S.P.?
- 95) How you manage Ballast Water?
- 96) What is D-2 standards?
- 97) What is ECDIS?
- 98) How do you update your ECDIS?
- 99) How do you order ENC?
- 100) How do you know whether your ECDIS is complying requirement?
- 101) What is the procedure to be followed when newly installing ecdis on board?
- 102) What is ECDIS alarm management?
- 103) What is your duties as a Ch. Off.?
- 104) You are joining as a Ch. Off. , Explain procedure?
- 105) How many rules?
- 106) What are the new rules?
- 107) Explain rule no 39?
- 108) What are the alcohol limits?
- 109) From where you can find them?
- 110) You are sailing on Northern Hemisphere, Master had heart attack & now he is taking rest, you observed Barometric pressure is 5 mb less than the normal, What is your action? (Other than the normal procedures explain about Log book entries, As a second in command)
- 111) What is parametric rolling, Short turn?
- 112) What is Leader Ship qualities?
- 113) After this Your company offers a Chief officer vacancy, do you join as a Ch. Officer?
- 114) What do you think?

My Sincere THANKS to Cap. ARUNA KOTELAWALA Sir & all the lectures, My batch mates, Friends at CINEC.

Note : Be careful about your dress & mobile phone to keep it switch off.

Date: 08.12.2017

Examiner: Capt. SUNIL JAYAWEERA

Candidate: E. A. ISURU KANISHKA

Status: PASS

1. Short introduction of yourself?
2. Any incident that you have been came across with your experience?
I said ballast pump out from cargo hold heavy ballast without opening ventilation flaps.
3. What kind of action to be taken after such an incident?
I said accident report to the company.
4. Then he asked what is the root case?
5. What are the preventive measures not to face such an incident?
6. What are ballast water requirements?
7. What are ballast water standards? D1, D2
Asked to fully explain D1 and D2 standards.
8. What is a vessel?
I have given the ROR No.3 definition.
9. What is wing in ground(WIG)?
I have given the ROR No.3 definition.
10. How to identify such a vessel?
Given power driven lights and hi intensity yellow flashing lights at night and day corresponding aspects.
11. When to keep switch navigational lights on?
Rule given from sun set to sun rise and whenever deemed to necessary
12. Do you keep switch off Nav lights during day time? I said no. He asked why?
Not to forget switch on at sunset.
13. How do you know whether lights are working or not when you switch on from bridge? I said alarms are provided
14. He asked can give falls alarm? I said yes. Then he asked then how do you know whether fwd mast head is working or not. I said only falls alarm is given if the fuse is burnt. I said if the fuse is in good order then the light must be burn out.
15. What is the full procedure for cargo hold preparation for grain cargo.
16. What is lime wash?
65kg of salt mix with 200ltrs of water and add 2.5kg of lime.
17. What is the protection it gives? As a barrier coat.
18. What are standards for cargo hold cleaning? Hospital, shovel, grab, etc.
19. What are the intact stability criteria for Grain Cargo vessel?
20. Finally, I said vessel must be upright before going into the sea?
21. Then again, he asked is it enough?
The cargo holds must be trimmed full and partially filled.
22. What are securing methods of grain cargo?
Saucering, Bundling, over stow, Longitudinal separation etc.

23. What is TML?
Transportable moisture limit
24. Why is it important?
Due to settling and consolidation it can lose its sheer strength and start behave as liquid.
25. What is volumetric heeling moment?
26. How to check sea worthiness by VHM? Shane sir's stability sums.
27. Can you load any amount of load containers as tiers? I said NO, load density, stacking weight violate and bridge visibility.
28. Where you can find the limiting values? CSM
29. What is Angle of loll? Negative GM
30. How to determine vessel is in Loll?
31. Reasons for Loll while at sea?
Consumable and shifting of cargo
32. What is a Code?
33. How to Code become mandatory?
Because of convention
34. How to convention become mandatory?
After full filling required member states and world tonnage.
35. What are the SOLAS codes? ISM, LSA, ISPS, FSS etc..
36. Why it took longer time to ratify BWM?
The member states to have required facilities such as reception and laboratory test facility etc.
37. What is the purpose of MLC?
Given the 14 items of MLC
38. What are Certificate under MLC?
MLC, DMLC part I, DMLC part II, Financial security or Insurance against liability issues such as crew wages, death, stranding in foreign air ports and Voluntary compliance certificate vessels of less 400gt
39. Who issues above certificates?
Flag state, RO or Class
40. How to enter into a dry dock?
Min ballast, slight stern trim, etc..
41. Why it is to carry min ballast?
To discharge the ballast in the dry dock, take longer time through the WB plugs. Takes longer time. It cost money.
42. What is the weather associates around the Sri Lanka?
Monsoons NE, SE
43. How the monsoons occur? Refer subra met book.
44. What is the period of SW and NE monsoons?
Jun to Oct, Dec to April.

Please consider above short answers as guidance only. Special thanks to Capt. Kothalawala, Shane sir, CINEC library and all other lectures who contribute to raise me to this level. Thank you.

CLASS 2 ORALS- CHIEF MATE



DATE:- 24.11.2017

EXAMINER:- CAPT. UPUL PEIRIS

CANDIDATE:- A.S.T.L FERNANDO

Ch.off General duties

1. What are the duties of chief officer on board?

Generally Head of deck departemant,maintenance,as cargo officer,stability,incharge of crew/crew welfare,navigation,assisting to master,garbage,ballast like wise give general description.

2.Chief officer's assistance to master when collecting evidence in case of grounding?

Stuctural intengrity,assessing vessel stability, pollution,casualties,allocating crew to sounding of tanks/sea bed, photographic evidence more details according to orals book.

ROR

3. What is ROR?

Expand COLREG-1972

4. New rules in COLREG

Rule 39,40,41-General description(Varification of compliance) and inforced year.

Cargo operations

5. Full description of loading cargo of Grain?

Start from DOA,Grain manual,shippers information ,cargo calculations(loadable quantity according to load line and draught restrictions),hold preparation, staowage plan,loading plan,ship/shore safety check list,international grain code

stability criteria, Fumigation, compliance with criteria, fully/partial securing methods.

6. How you check compliance for stability according to international grain code?

Explain the checking of stability criteria as we learn in stability and SBO.

7. Why you do fumigation and required Docs/Equipments?

To avoid infestation, Certificates, DO NOT ENTRY labels, Gas testing equipments, Spare fumigants, MSDS etc.

8. How do you care for a Cargo of Grain at sea?

Sealing of hatches to avoid water ingress/surface ventilation reduce heat/use of tarpaulin to reduce heat/ avoid heavy weather. check with capt. Kothalawala for more clarification.

9. How you obtain details about Ship's Cargo gear?

Register of ship's lifting appliances and items of loose gear.

10. Lifting gear inspection intervals?

Annually thorough examination, every 5 yearly.

11. Master inform you that the Annual cargo gear survey is due. how will you go about it?

referring to Registry of ship's lifting appliances and items of loose gear, any outstanding items, corrective actions taken, and condition of class imposed, test certificates, plans, loose gear details, modifications, etc.....

12. Documents to load IMDG Cargo?

13. Importance of DG manifest?

14. At sea on deck IMDG container leaking and one of your crew member got contacted with that cargo. Your actions

Explain starting from Referring to DG list in VOL², MFAG /Ems in supplement, Flow charts for diagnosis

15. Documents to load reefer containers?

Examiner is looking for one particular document???????

ECDIS

Please read recent circular on ECDIS- MSC.1-Circ.1503-rev.1 ,all answers for the below questions are in it.

16. ECDIS performance standards?

17. What are the ECDIS anomalies/Why anomalies happen???????

18. How will you detect that your ECDIS is having anomalies?

By installing IHO data set and checking against Latest presentation library.

19. What are the alarms of ECDIS?

20. How you manage your alarms in ECDIS?

Alarms set up- Alarms monitoring - actions. further clarification needed from CINEC Simulator.

21. During your watch you observe Anti-Grounding alarm. Your actions

22. If GPS fail in your ECDIS how you proceed?

Radar overlay and position fixing by VRM and EBL.

23. How to identify IALA A or IALA B on ECDIS display?

Pick report on displayed bouy???????

24. During PSC inspection how you show your ECDIS is updated?

In FURUNO ECDIS by showing chart updated list.

Stability

25. What is loll and list?

26. Before trans-Pacific voyage master informed you to take actions to avoid parametric rolling. How will you go about it?

MARPOL

27. How you manage your Garbage on board?

Categorization/seggregation/placards/training/providing necessary equipments/records in Garbage record books/receipts for shore discharge.

28. How you dispose cooking oil?

In sealed container to shore facility and receipt, enter in garbage record book.

29. What are the records in Garbage record book if you incenerated garbage?

Date/time/location/start time/stop time/quantity/categories/signatures of responsible persons.

30. Why MARPOL came in to force?

1969 Torrey Canyon disaster- oil pollution

31. What is MARPOL Annex vi and how it incorporated to MARPOL 73/78???????

By a protocol 1997.

32. What are the componants controlled by Annex vi?

SO_x, NO_x, VOC, PM, Ozone depleting substance.

33. What are the new Amendments to Annex v. Is it in force?

Two new Categories-Hazardous to Marine Environment/Non-Hazardous to Marine Environment. is it in force???????

34. What is SEEMP?

35. Chief officer Record for SEEMP?

36. For what purpose these records for?????

37. How many Annexes does Sri Lankan Government ratify?

Except Annex VI others already ratified.

38. What are the SO_x levels in ECA and Outside ECA?

ECA-0.1 percent, OUTSIDE ECA -3.5 percent.

39. How do you control NO_x Tier III level on ships???????

SEARCH AND RESCUE

40. You receive MF/HF DSC distress alert during your morning watch. How do you go about it?

41. What maintenance do you do to survival craft launching appliances?

Checking/testing according to PMS, Greasing, Wire checking etc.....

42. How often do you carry out enclosed space drill/launching of rescue boat?

two months/monthly

Ballast water Management

43. Explain D1 and D2 standards?

UNCLOS

44. What is UNCLOS?

45. What are the sea limits defined by UNCLOS?

46. Rights of the coastal state in Contiguous zone and in EEZ?

47. What is Innocent passage?

SSP

48. Master has gone ashore. PSC inspectors request to see your ship's SSP to Clarify a security breach, Your action?

Only in the case of serious breach Contact CSO, under his authorization show them only the required section of the SSP, where the serious breach had occur.

Business and Law

49. Scope of the Class Survey?

50. What is the difference between Hull and Machinery insurance and P&I Club.

General description according to Shane sir notes.

51. What are the functions of P&I Club

52. Difference between marine Casualty and Marine Incident?????????

53. What is Sri lankan Legislation?

54. Master incapacitated. Where it is written that chief officer can take the Command???????????

Please consider above answers as guidance only. Special thanks to Capt. Kothalawala, Shane Sir, CINEC simulator, CINEC library and all my friends.

1st day

Examiner - Capt. Upul Pieris

Candidate - Buveneka Bandara Premarathne

Status - Fail

Note - Examiner expects short answers only. So, no need to explain answers in detail. Examiner will ask another question or a similar question to get the answer he's expecting if candidate missed any of the important points. Avoid use of unnecessary words/ terms/ phrases generating chances for cross questioning.

1. Restricted Visibility
2. Fog signal of pilot v/l
3. Grain cargo/ loading/ precautions
4. DG Document/ Content of DG Declaration & DG manifest
5. Document required for container v/l
6. Surveys of cargo crane and its importance
7. Primary means of navigation where you can find
8. Use of ECDIS/ definition of safety contour, safety depth
9. How do you make sure your position on ECDIS is correct or not (plotting)
10. How do you continue passage if GPS is not working while at sea?
11. What's SENC ?
12. Difference of Loll & List
13. Loading cargo port A to B 50,000 + bulk carrier
14. Damage stability plan content/ why important
15. Why parametric rolling occurs/ dangers/ avoidance?

16. While at port, master advises you he had experienced parametric rolling in the Atlantic Ocean in last voyage and take precautions. What are your precautions as C/O?
17. MARPOL Annex VI/ Seemp/ ECA areas/ how can you improve efficiency?
18. Annex V,
19. Unit of entry GRB/ record book content/ cooking oil container GRB
20. Sopep manual updates
21. What is other manual for Chemical Tankers
22. Territorial water/ right of the ships
23. EEZ/ right of the country inside EEZ
24. National Legislation
25. Satutory Certificate/ class certificate
26. Class survey scop
27. Sri Lanka act/ content/ procedure/ why is it important for seafarers?

CLASS II ORAL EXAMINATION

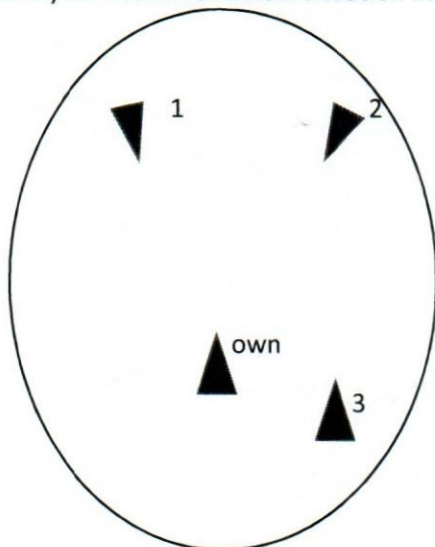
Examiner – CAPT S.M.S.Bandara

Candidate – N.P.Mataraarachchi

Date - 18.07.2017

Duration – 1hr 45 mints First attempt

1. How you load the container vessel? Your vessel is small vessel load 800 teu two ports and two cargo holds. No loading programmed should load manually explain procedure?
2. How you load the general cargo ship 50000 t?
3. How you load bulk carrier 50000t?
4. How you load tanker 50000t?
5. Procedure of doing draft survey for above vessels?
6. What is the doing draft survey for above vessels?
7. Explain rule no 19?
8. What is your action for below situation in restricted visibility?



9. What you mean damage stability?
10. What is the ballast water management?
11. Under which regulation you get your COC?
12. How you identify anchor dragging when you at bridge?
13. After identify what are your actions?
14. How you say anchor brought up?
15. When and how you drop second anchor?
16. When bunkering your vessel bunker line burst at the barge what is your action?
17. What are the weather pattern around sri lanka?
18. You see AB drunk at the alleyway during night time. Vessel is zero alcohol policy what is your action?
19. What instruction you give duty officer duty officer for cargo watch?
20. What are the additional things you consider for fresh third officer doing his first cargo watch?

21. What are the entries of official log book?
22. How you prepare vessel for load line survey?
23. What is you do when received TRS warning 1000nm away from you?
24. What are the avoiding action at above situation?
25. What are the Chief Officers duty received TRS warning?
26. What are the SOLAS new amendments?
27. What is the antifouling?
28. What is the free board notice?
29. What is the tank inspection procedure?
30. What are the things you inspect in tanks?
31. Boson collapsed inside the tank few meters away from you what is your action?
32. What is static electricity?
33. What is flash point?
34. Ship maintenance procedure?
35. What is your action about PMS outdated maintenance?
36. How you know about ship loose gear?

I passed and I would like to thanks everyone who support me to achieve this goal.

ORAL EXAMINATION QUESTIONS – CLASS 11

Examiner : Capt. S.M.S. Bandara

Candidate : K.N.U De Abrew

Date : 14.06.2017



Checked my CDC. I have been sailing mostly on container vessels. Examiner emphasis that you should know any type of vessels and begin to ask me questions on container trade.

1. What is IMDG code? Latest edition on IMDG Code & validity (38-16) period of 03 years.
2. What are the document that you need to load IMDG cargo? IMDG Code, Document of compliance (DOC), DG Stowage plan, DG manifest, DG Declaration, If loading marine pollutant marine pollutant declaration. Packing certificate.
3. What are the instruction that you giving to your Duty officer when loading IMDG? Stick to the stowage plan If any changes notify immediately, Check the DG container number against the stowage manifest, Check the labels available on 4 sides of the container, Ensure no leaky container, Ensure the seal is intact. (Examiner satisfied for the answers that I have given)
4. What are the statutory certificates required by container vessel? (Tell all the certificate. If the examiner is satisfied he will stop.)
5. You are given to load 50 000 t +/-10%. How are you going to load this cargo amount? (Full procedure)(Applicable load line, draught restriction)
6. You are on a general cargo ship and you are getting steel coils and steel bars how are you going to plan the loading? When you prepare the sequential plan make sure to check the weight of the steel coil (shipper will provide the details).
7. How can you ascertain the loading operation are in order as you planned.
8. What are the contents of stowage plan and loading plan?
9. You are getting rusted cargo. What is your duty as a Chief Officer? **Read the charter party or voyage instructions to see any clauses are made by charter party about loading rusted cargo. (If any. you can load). As a chief officer you must inform Master to arrange Cargo surveyor and owner to arrange P & I surveyor on board. Let the cargo surveyor to quantify the amount of cargo which is rusted. That document you can attached with "photo evidence" (examiner expecting that word to express by yourself) and prepare the mate receipt in order to clause the B/L. Preserve these documents to avoid any further claims.**
10. You are requested to go forward to drop Anchor?
11. What is Anchor brought up?
12. You have a causality 3° burn ? Action - First aid and Radio medical advise by using Inmarsat phone code 32
13. You are coasting near Sri Lankan waters how do you obtain metrological warnings? By Navtex (can you obtain navtex warning from Sri Lanka.) (Sir since it is operating on 518khz medium frequency it is about 500nm spectrum probably we would get it from Chennai.) SAT C, SPOS (Mainly spos).
14. What are the monsoons in Indian ocean?
15. Case study of Torrey Canyon. What aftermath? Implementing MARPOL Annex 1.
16. MARPOL Annexes.
17. Grain loading criteria
18. What is purging, Static electricity, Topping off, Gas freeing?
19. Entering into heavy weather. What is your action as C/O. (Highlight the check list).

20. OS drunk and lying on the alleyway. (0 alcohol tolerance) what is your action as C/O? **Evidence, escort him to his cabin, Keep another person with him. Inform master and according to the code of conduct Master will take further action.**
21. What are the entries made in Official log book?
22. What is narrative section and what are the entries?(Master's sign on/off, Crew member medicals, Disciplinary matter, Accidents etc)
23. What are the latest SOLAS amendments? (**Ask from Menaka Rajapkshe. He got a magic method of answering**).
24. How do you prepare for a Load line survey? (Examiner need key points to high light which I missed. Therefor folks begin with it. i.e **Check all the certificates are valid. Check any class conditions are imposed, Check the previous survey list any Observance, Non conformities, etc .**
25. What regulations govern your COC? STCW 78 as amended 2010 (Manila Amendments)
26. What is the merchant shipping Act of Sri Lanka?
27. Explain the procedure for implementing Instrument in Sri Lanka?
28. What is FREEBOARD notice and where you keeping it? (Prior sailing freeboard notice pertaining to available freeboard should filled by Chief officer. It is keeping in the ship office among other files and also should be filled in the deck log book front pages.)
29. What is Damage stability and why it is important to Chief Officer? Damage stability means If the ship loses her **water tight integrity** in the way that allows water to flood any compartment in the ship's hull. To check the stable / unstable. To check weather vessel can be refloat, call a salvage or abandon the vessel. And please mentioned the loadicator (some) has facility to calculate the damage stability, Tankers having the facility in the loadicatr. Also in such emergency the office has an emergency expert team to give shore advises.
30. Tank inspection fore peak tank (after ESE checklist completed and atmosphere is safe to enter)
31. Bosun found collapsed suddenly. You (C/O) are in side what is your action?
32. You are in a new vessel prepare your vessel for ISM?
33. Ballast water convention? (Elaborate him the full ballast water from adoption why it is adopted, implementation, exchange methods, exchange standard, performance standard, documentation, etc.)

Confidently answer the questions. There are certain places where you going to get stuck that is natural. At that time try to elaborate what you know. (At least you know something about it.) Something If I forget to mention here please forgive me.

My sincere thanks to all my lecturers at CINEC. Thanks to all my friends who encourage me guided me and giving their fullest support throughout.

All the very best.

Chief mate Oral Examination

Candidate : J.A.S.A Jayasinghe

Examiner : Capt.Sunil Jayaweera

Date : 15th May 2017

Here I have given you only some key points for answers and it's not the detail answer. Hope in this way you will be able to understand the concept of the answer.

- 1) Have you met any marine incident while you onboard?
Yes..... Flooding No.1 C/H at Container ship while exchange ballast water.
- 2) Explain your action as C/O upon above situation.....?
Comply with Emg. Procedure C/L for flooding condition of SMS. (Start from ringing the Emg. Alarm, Muster, Head count.....etc)
You must explain all those contained in the C/L. Ascertained Damage Stability condition & send all required details to SERT. Never pump out to the sea. Transfer water to any tank according to your stability. Use portable pumps or bilge system for transferring water.
- 3) How do you assume the volume of water in the C/H, C/H full with containers.....?
By reading draft gauges or observing visual draft.
- 4) What is permeability....?
- 5) What is Measurement cargo.....?
- 6) What is Dead Weight cargo.....?
- 7) What are the differences of above cargo...?
Examiner wish to hear volume, weight and SF 1.2 above and bellow.
- 8) What is SF..?
- 9) What is Broken Stowage.....?
- 10) What is Load Density...?

- 11) What is loadable amount...?
- 12) How do you find out loadable amount.....?
- 13) Shipper has given you amount of cargo 60000 mt. How do you going to load this amount.....?
- 14) What are the documents required for loading IMDG cargo.....?
- 15) What are the documents required when a container vessel go for loading.....?
- 16) What is the latest requirement for container weight...?
Container Gross mass verification.
- 17) What are the incidents behind Container Gross mass verification.....?
MSC Napoli he was not accepted. Answer might be MOL Comfort.
- 18) You have a DG container Fwd, on deck and fire..... your action.....?
Comply with Emg. Procedure C/L for Fire on IMDG cargo of SMS. You must explain all those contained in the C/L. (Start from ring the Emg. Alarm, Muster, Head count.....etc). He needs to hear IMDG Supp. Fire procedure.
- 19) Fire can not control, your action.....?
Reporting to SERT, MRCC, Nearest Coastal State, Appropriate Authorities, Near ships. You must seek assistance from all available means.....
- 20) What is RAM.....?
- 21) What are the conditions for RAM.....?
- 22) RAM lights.....?
- 23) Draw and show me the lights with a vessel RAM and making way through the water.....?
In this answer he expected the understanding of positioning and technical details of lights.
- 24) On above RAM vessel he put two Red lights on main mast Stbd side and asked me to explain.....?
You need to explain the Dredger full details.
- 25) What is WIG Craft.....?
- 26) What are the lights of WIG Craft....?
- 27) What is Restricted Visibility.....?
Give definition.
- 28) How do you determine RV....?

*Range varies with your SMS. Radar range, VRM, own foremast light.....
explain all methods.*

29) *You are on the Bridge, night time how do you understand whether this is Fog or not....?*

Dry & Wet bulb temp, RH, weather msg, Navitex, VHF, Routing Charts, Sailing Directions..... Use all above relating to your position.

30) *Wind force 3-4, current also..... How you are going to drop anchor....? What are the dangers involved in this operation...? What you report....? You need to start answering from the time you wear PPE & step by step go ahead. He needs to check your skills on management level. Reporting crew safety, awareness of operation more important.*

31) *How do you carry out maintenance of Mooring winches and Windlass...?*

Follow the PMS and Manufacturer instructions.

32) *How do you test the winch brake....?*

33) *How do you carry out the job of changing brake pads of mooring winch.....?*

34) *What is Angle of Loll?*

35) *How do you identify AOL practically on board your ship at sea?*

AoL situation can arise with negative GM. Recalculate stability from the departure port. Sound all tanks, check the condition and amount of cargo on board.....

36) *How do you prepare your vessel for Dry Dock.....?*

Candidate : J.A.S.A Jayasinghe

Examiner : Capt.Samantha Bandara

Date : 07th June 2017

- 1) How do you identify Fog at night.....?*
- 2) How do you determine the Restricted Visibility.....?*
- 3) What are the Stability Criteria for Grain.....?*
- 4) What are the documents required for loading Grain...?*
- 5) What is VHM.....?*
- 6) How to find VHM.....?*
- 7) How do you know the vessel comply with Grain Rules.....?*
- 8) What are the Grain securing methods.....?*
- 9) Why you secure the Grain.....?*
- 10) How you make a saucer.....?*

Examiner gave me many drawings of a C/H from different views and asks to make a saucer. Be through when you read some theory and well understand the concept.

- 11) He gave me 5 C/H grain ship all C/H filled up to 98% except No.1 C/H only 60%..... How do you work with this loading of grain..? What are the factors that you concern.....?*

Give him a detail answer and specially he concern whether you check this condition with your sample loadings in Grain Loading Manual.

- 12) What are the instructions, do you give to your duty officers before commence Loading Operation...?*
- 13) What is Final Stowage Plan.....?*
- 14) What is Loading Sequence Plan.....?*
- 15) How do you test your loading computer...?*
- 16) What is Damage Stability.....?*
- 17) How do you load 50000+/- mt of Grain.....?*

- 18) While loading your one of the ballast line burst..... your action.....?
Give him a detailed answer step by step. (stop cargo operation, investigation, possibility of repairs, reports, revise LS plan.....etc up to resume loading)
- 19) What documents do you need for loading container ship?
- 20) What documents do you expect from shipper prior to load IMDG cargo....?
- 21) How do you train a new cadet on board..... What instructions you give him.....?
- 22) Company maintains Zero Alcohol Policy. When you go down from the bridge you found next duty AB fully drunk, laid on the staircase and unconscious. Your action as C/O.....?
Explain actions step by step. Finally examiner needs to hear Formal warning and dismissal from the ship.
- 23) What are the new amendments to SOLAS.....?
- 24) What are the new amendments to MARPOL.....?
- 25) What are the new amendments to STCW.....?
- 26) How do you prepare for L/L survey...?
- 27) How do you carry out F/P tank inspection...?
- 28) What instructions do you give to 3rd officer before you leave the bridge at 0800 hrs regarding Entry into Enclosed space start at 0900 hrs...?
Examiner need to hear you give a copy of Enclose space entry C/L to 3rd officer.
- 29) You entered with Boson to F/P tank and after you entered Boson collapsed in the tank. Your action.....?
- 30) What is ISM.....?
- 31) How do you implement ISM on board....?
- 32) Your ship is taking bunker from a Bunker Barge and suddenly oil transferring pipe burst at Bunker Barge and lead to oil overflow to the sea. Your action as C/O.....?
After considering own safety, render assistance to B/B to minimize environment pollution.

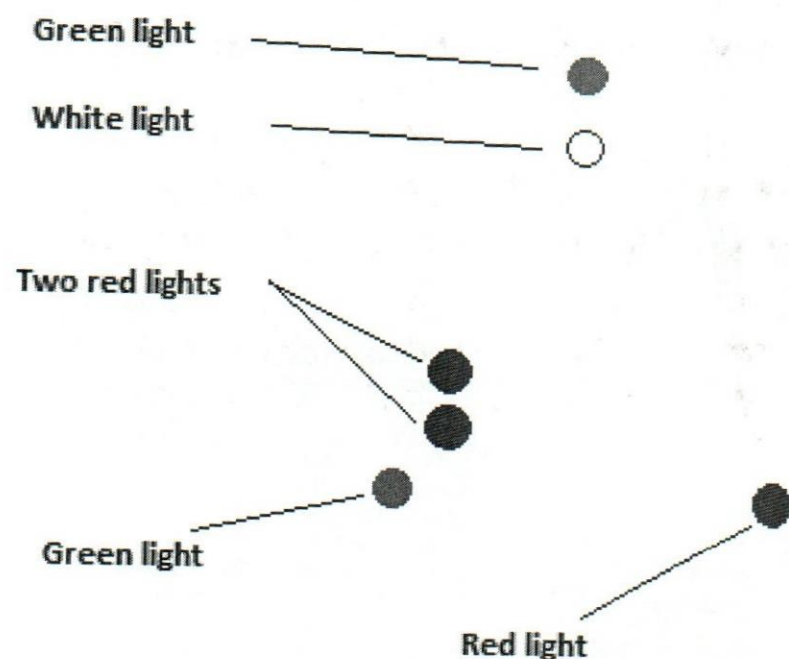
- 33) *How do you find out the information about Cargo Gear on your ship.....?*
- 34) *From where you get the inspection details about Cargo Gear.....?*
- 35) *What are the requirements for carriage of ECDIS?*
- 36) *How do you prepare your vessel for Dry Dock....?*
- 37) *What are the Anti-Fouling paints....?*
- 38) *What is Short Turn and how do you make a Short Turn....?*
- 39) *Examiner gave me a drawing with many obstructions in a circular way and an exist course. Your ship in this narrow circle and asked me to turn the vessel and come out?*
He needs to check my skill about Short turn and Snubbing Turn.

Thank you very much all the Lectures, my batch mates and friends at CINEC Maritime Campus those who gave me support and courage.

Read the Shane Sir book for "Preparation for Oral Examinations – Chief Officers many times before you appear the exam. Also other relevant books those you need to refer he has given you in Page no.2. You should have idea about the contents of those books. Refer the past papers and make your answer to the point. Always show your confidence and awareness of the situation specially on Emg. Situations.

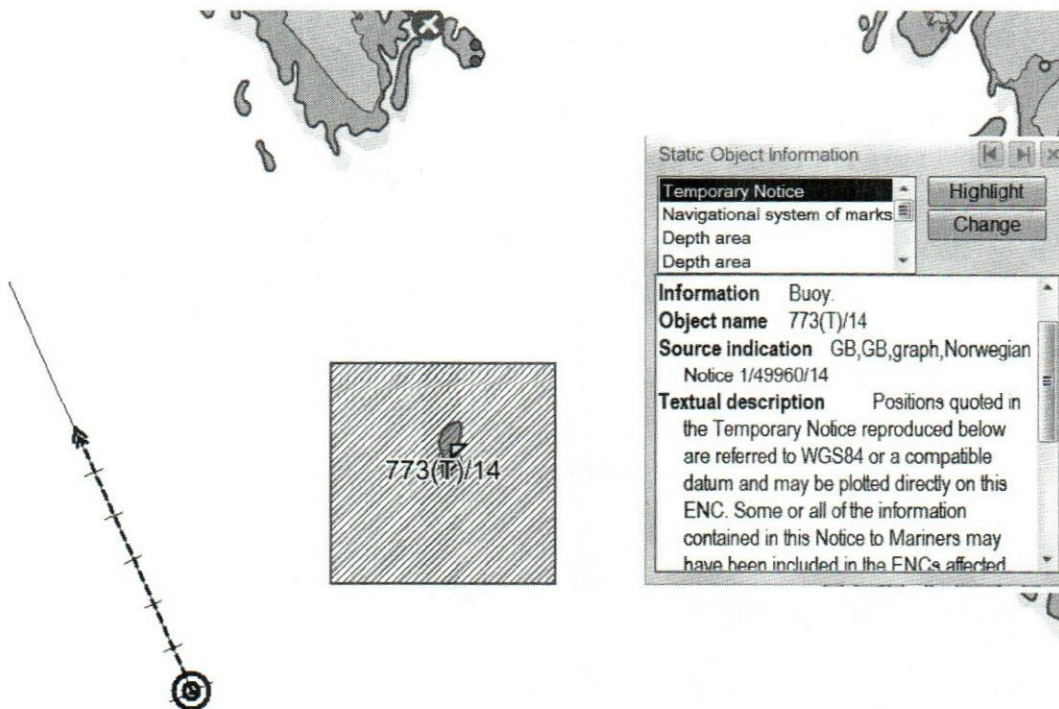
By Capt. Sunil Jayaweera

- WHAT IS SAFE SPEED? (Rule 6)
- EXPLAIN THE RELATIONSHIP BETWEEN RADAR AND SAFESPEED? HOW DOES THE SAFE SPEED EFFECT FOR RADAR? (Use Rule 6)
- WHAT IS CBD? (Definition, lights, shapes and sound signal)
- WHAT IS RAM? (Definition, lights, shapes and sound signal)
- WHAT ARE THE DIFFERENCE BETWEEN LIGHTS OF A PILOT VESSEL AND A FISHING VESSEL?
- WHAT IS A TRAWLER? (Rule 26)
- WHAT IS THIS? (Trawler, more than 50m in length, making way through the water, net come fast upon an obstruction)



- WHAT IS WEST CARDINAL BUOY?
- WHAT IS DEIONIZATION (RADAR)?
- WHAT IS SUBREFRACTION (RADAR)?
- WHAT IS DUCTING (RADAR)?

- HOW DO YOU TUNE RADAR?
- WHAT IS TRIAL MANOEUVRE? HOW TO USE IT?
- WHAT IS THE WEATHER CONTROL ON AUTOPILOT?
- WHAT ARE THE ERRORS OF ECHO SOUNDER?
- ON DECK LOG BOOK YOU WRITE COMPASSES COMPARED, WHAT DOES IT MEAN?
- WHAT IS BAROMETER? HOW DO YOU OBTAIN THE READING? WHAT IS INDEX ERROR?
- WHAT IS AIS?
- WHAT IS LRIT?
- WHAT IS BRM?
- HOW ARE YOU GOING TO DO THE MANUAL CORRECTION ON ECDIS?
- WHAT IS T & P CORRECTION?
- HOW THE T & P CORRECTIONS DO INDICATE ON ECDIS? WHAT COLOUR IS IT?



- WHAT IS WNTM?
- WHAT IS CUMULATIVE NTM?
- HOW DO YOU DETERMINE THAT THE ANCHOR DRAGGING?
- HOW ARE YOU GOING TO LOAD IMDG CARGO?
- IF THERE IS ANY LEAKAGE FOUND IN IMDG CARGO, WHAT IS YOUR ACTION?
- WHAT IS HYGROMETER?
- WHAT ARE THE CHECKS AND TESTS FOR GMDSS EQUIPMENTS?
- WHAT ARE THE MAINTENANCES, CHECKS AND TEST CARRYING OUT FOR FIRE HOSES AND FIRE HYDRANTS?
- WHAT IS THE DRILL REQUIREMENT FOR FREE FALL LIFEBOAT?
- EXPLAIN HOW TO CARRY OUT THE SIMULATION METHOD FOR FREE FALL?
- YOU ARE THE DUTY OFFICER AT PORT; WHILE YOU ARE ON WATCH YOU RECEIVE STORES, PROVISIONS, AND BUNKERING IN PROGRESS AS WELL. HOW ARE YOU GOING TO MANAGE THE SITUATION?
- HOW DO YOU KNOW THE ANCHOR IS BROUGHT UP?
- WHAT IS DAMAGE STABILITY BOOKLET? (DAMAGE CONTROL BOOKLET), WHAT ARE CONTENTS OF IT AND HOW DOES IT HELP?
- TELL ABOUT THE MINIMUM IMO STABILITY CRITERIA FOR SHIPS?
- HOW ARE YOU GOING TO CORRECT THE NEGATIVE GM?
- WHAT IS FOG? HOW DOES IT FORM?
- WHAT ARE THE SIGNS OF TRS?
- WHAT IS WILLIAMSON TURN? HOW TO DO THE MANOEUVRE? WHY ARE WE USING THIS METHOD? (Draw it and Explain)
- WHAT IS BALLAST WATER MANAGEMENT PLAN, WHAT ARE THE CONTENTS?
- WHAT IS OFFICIAL LOG BOOK?
- WHAT IS SEEMP?
- WHAT IS DI? (EEDI-ENERGY EFFICIENCY DESIGN INDEX)

- WHAT IS EOI? (EEOI- ENERGY EFFICIENCY OPERATIONAL INDICATOR)
- WHAT IS GREENHOUSE EFFECT?
- WHAT IS TRANSVERSE THRUST?
- WHAT IS SQUAT?
- WHAT IS TACTICAL DIAMETER? (Draw a Turning Circle and explain)
- AT PORT, YOU SEE AN UNKNOWN PERSON ALONE IN STEERING GEAR FLAT? WHAT IS YOUR ACTION?
- WHO IS PSFO?

I HOPE THAT THIS MIGHT HELP YOU TO GET SOMETHING, HOPE YOU GUYS WILL DO YOUR BEST, **GOOD LUCK!!!!!!!**

I WOULD LIKE TO THANK MY LECTURERS AND MY BATCH MATES WHO GAVE ME A GREAT SUPPORT TO ACHIEVE THIS.....

ORAL EXAMINATION CLASS II
EXAMINER : CAPT. A.HERATH
CANDIDATE : A.C. GUNAWARDENA
DATE : 21.09.2017

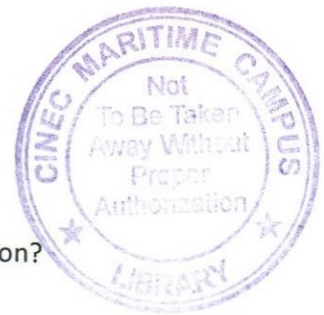
055 Class II
over 18

1. Examiner gave me a load line calculation to do in front of him.
2. How do you plan the loading for the tonnage calculated.
3. What are the arrival and Departure documents?
4. Suppose there is cargo shortage how do you mention it in the mates receipt?
5. If there is a cargo damage before loading how to mention it in Bill of lading?
6. What are the contents in mates receipt?
7. How do find the final cargo weight?(draft survey)
8. Draft survey full procedure. Mention the formulas and how to apply.
9. When doing draft survey there was a small swell how do you get the data and what are you going to do afterwards?
10. Now you have discharged this cargo but there is a shortage. What is your action?
11. How do you plan a loading in gas carrier?
12. What are the safety precautions to be taken?
13. Tell me the ways of shortage could occur when loading in gas carriers.
14. What is ballast water management?
15. What are the methods used in exchanging ballast water and treating ballast water?
16. What are the performance standards for treating method?
17. What is the salinity of water when exchanging ballast in ppm?
18. If you find the ballast water salinity is different than the 30 ppm what is your action?
19. What are the entries you make in ballast water record book?

ORAL EXAMINATION CLASS II
EXAMINER : CAPT. A.HERATH
CANDIDATE : A.C. GUNAWARDENA
DATE : 21.09.2017

20. What are the duties of person in charge of ballast water management?
21. What will you do if you can't exchange the ballast water at sea?
22. What are the occasions where you cannot carry out ballast water exchange?
23. What is the duration of TRS occurs at northern Atlantic and the reason?
24. ECDIS route planning(items which I missed to mentioned in the 1st attempt)
25. Heavy lifting documents?
26. What is Register of lifting appliances and items of loose gear? What are the contents?
27. Why do you need a classification society?
28. What is the role of IACS?
29. What are the requirements to be a IACS member?
30. What is a technical defect? And what you should do in case you find one?
(Examiner didn't expect a definition. Just answered practically)
31. Garbage management.

I would like to thank all my friends who encouraged me and all the lecturers at CINEC.



29. Your vessel is Grounded Full Procedure?
30. Your Cargo Hold No #1 is Flooded After grounding what is your action?
31. How do you refloat your vessel?
32. How do you prepare for Safety equipment Survey?
33. What items checked by survey?
34. What items checked on life boat?
35. What is latest marine Incident? (CSCL JUPITER grounding on river bank port Antwerp, what is the cause? Why they didn't use emergency steering? What precaution should be taken?)

Assignment on -Voyage instruction
-Cargo calculation
-Draft survey
-Cargo Documentation

2017.08.21

36. What books you refer for the assignment? (BULK CARRIER PRACTICES, BUSINESS & LAW FOR SHIP MASTERS, SHIP MASTERS BUSINESS COMPANIAN)
37. How do you carry out draft survey?
38. What is 1st trim Correction, Why it is applied?
39. What is 2nd trim Correction, Why it is applied?
40. If the densities of water 1.012 RD how do you make density correction?

Special thanks to Capt. A.Kotalawala, Mr.S.Sankaranarayana, all my friends help me to get through orals.

2nd Day

Examiner - Capt. Asiri Herath

Candidate - Buveneka Bandara Premarathne

Status - Pass

Note - Tell everything about what's been inquired. Examiner won't tell/ react if candidate's answer was correct or not, will continue to another question if answer was correct

28. DG document?
29. VGM/ why came into force
30. Surveys of cargo crane/ how often/ documents
31. Primary means of navigation
32. One of your ECDIS doesn't work while at sea, what action do you take?
How do you apply exception certificate (procedure)
33. What's damage stability?
34. What's parametric rolling/ avoiding?
35. Marpol Annex 6 - all details
36. NO_x technical code content
37. Marpool Annex 5 - Garbage Category
38. What's EEZ/ What's convention?
39. National Legislation
40. Statutory certificate/ class certificate/ mandatory certificate
41. Why class certificates are important?

42. Tank inspections
43. What's Ballast
44. Oil spill action as C/O
45. AB found drinking, not attending to watch. What's action as C/O?
46. Heavy weather anchoring

CLASS II ORAL EXAMINATION

Candidate: W.D.S Madhushanka
 Examiner: Capt. Nick Senanayake
 Date: 10.08.2017

1. What manoeuvres shall you avoid in restricted visibility?
2. For which vessels is it applicable?
 (For vessels with close quarter situation is developing and/or risk of collision exists with own vessel in restricted visibility)
3. Explain about the Isolated danger buoy (Full description of the buoy & purpose of it)
4. Explain about the East cardinal buoy (Full description of the buoy & purpose of it)
5. Your course is 180'(T) and you'll see an East cardinal buoy on right ahead, What is your action?
6. What is TML?
7. Onboard testing procedure of moisture content of a bulk cargo commodity?
8. What will you do if the moisture content of the sample exceeds the TML value provided by the shipper?
9. What is the Angle of Repose?
10. What is the important of the AOR? (For trimming the cargo as $AOR \leq 30'$, $30' < AOR \leq 35'$, $AOR > 35'$)
11. What are the damages/ dangers involve with those three types?
12. What has been described in the Grain code?
13. Stability requirement of a vessel carrying Grain cargo?
14. What is the procedure of loading a heavy weight?
 (He was expecting including the vessel preparation, obtain cargo information from shipper, precautions to be taken & loading procedure)
15. If the load density of the tank top exceeds, what will you do?
 (Placing dunnage according to the framing arrangement of the vessel, **Shoring and Tomming**)
16. From where will you find about the dimensions and sizes of the tomming? (From Cargo Securing Manual)
17. What are the contents of the CSM?
18. From where do you find about the SWL of the loose gears?
 (Register of lifting appliances & cargo handling gear/ Certificates of the loose gears/ **Rigging plan**)

19. What is rigging plan and its contents?
20. How do you load that cargo unit if the weight of the cargo exceeds the SWL of the lifting appliances?
(**Twin crane / Yo-Yo Gear**)
21. What is Class and purpose of having a class?
22. What are the classification societies approved by the Sri Lankan flag?
23. What is Angle of Loll?
24. How do you correct the angle of loll?
25. What is MARPOL Convention?
(He was expecting the reason for implementing the convention as **Torrey Canyon** incident, Objective of the convention and its annexes)
26. Discharging procedure of sewage?
27. Discharging procedure of Garbage within special areas and outside special areas?
28. What are the Annex V special areas?
29. What are the Annex VI related environmental pollutants?
30. What are the ECA areas described under MARPOL Annex VI?
31. Why do those areas call as ECA areas? (Because of heavy traffic as well as those are **high industrial zones**)
32. Explain about the SEEMP, EEOI and EEDI?
33. What are the documents and certificates related under MARPOL Annex VI?
34. What is the Ballast Water Management convention?
35. What are the Ballast water exchange standards and treatment standards?
36. What are the Anti-fouling paints using onboard?
37. Why do we use that kind of paints?
38. What is ISM?
39. How you implement the ISM onboard as chief officer?
40. How do you prepare your vessel for dry docking?
(Examiner expecting the preparation of repair list under the categories of **Standard items, Repair items and Modification items**)
41. What are the Standard items, Repair items and Modification items?
42. How do you carry out the surface preparation for painting in dry dock?
43. How do you find out the rolling period of vessel?
44. What is the most convenient rolling period for a vessel (I said as **11-15 seconds** and he accepted it)
45. How do you prepare your vessel for load line survey?
46. How do you prepare your vessel for navigating in higher latitudes?
47. How ice buildup occurs onboard? (**Due to the sub-freezing temperature with Gale force wind**)

48. What are the areas more prominent to be accumulated ice?
(**Hatch covers, Forecastle deck and other deck exposed areas**)
49. What are the precautions to be taken for avoiding the ice accretion? (Mainly spray the **Rock Salt** on the surfaces where can be ice accumulated)
50. What is Flash Point?
51. What is Ignition point?
52. What is Flammable range?
53. What is UFL and LFL?
54. What is the UFL & LFL of Crude oil?
55. What is static electricity?
56. What are the STCW Manila amendments and amendments came into force recently for STCW?
57. What is the new rest hour regulation?
58. What do you know about the Herald of Free Enterprises Ro-Ro ferry incident and what are the rules and regulations came into force after that incident?

My sincere gratitude goes to all of my NDT lectures and CINEC lectures as well as my Chief Mate batch 33 colleagues who encouraged, guided and helped me to achieve this goal.

Good Luck...!

Chief Mate Oral Examination

Navigation
CLASS

Candidate: **W.A. Darshana Manju Nishantha.**

Date: 19th July 2017.

Morals

Examiner: Capt. S.M.S. Bandara, Capt. Gamine Wilson.

- 1). 50000MT + or – 10% Loadable Quantity for bulk Carrier.
- 2). 50000MT + or – 10% Loadable Quantity for general Cargo ship. (steel coil & steel rods)
- 3). 50000MT + or – 10% Loadable Quantity for Tanker.
- 4). Procedure for calculating displacement of each vessel after loading.
- 5). Content of loading sequence plan.
- 6). Action when bunkering oil spill on bunker barge.
- 7). Document required for in word clearance for a container vessel.
 - 1) Past incident (actions to avoid such incidents)
 - 2) 80000MT wheat full loading procedure for 5 cargo hold bulk carrier.
 - 3) Grain Criteria.
 - 4) Procedure of constructing GZ curve for 80000 GT vessels.
 - 5) Grain Securing Methods.
 - 6) After completion of cargo operation Charterer force to sail out but ballasting not completed, what is your action.
 - 7) Explain Ballast water convention.
 - 8) How many countries ratified.
 - 9) Sri Lanka ratified?
 - 10) Exchange methods.(explain 3 methods)
 - 11) What is treatment plant & what are the treatment methods.
 - 12) Explain Antifouling Convention.
 - 13) What paints are used for antifouling.
 - 14) What is Nairobi convention?
 - 15) What is UNCLOS?
 - 16) What are the zones?
 - 17) What is innocent passage?
 - 18) How do you find base line?
 - 19) How do you calculate nearest land for discharging garbage?
 - 20) How do you know LODICATOR working properly?
 - 21) How do you carry out test & frequency of testing?
 - 22) Who approved LOADICATOR?
 - 23) Relationship between DEI & GM.
 - 24) What happen to the Metacentre according to the displacement?
 - 25) What is Dynamical stability & Static stability?
 - 26) Full procedure of IMDG container loading?
 - 27) How many volumes of IMDG code & content of each?
 - 28) What is the latest version?

- 29) What is proper shipping name (PSN)?
- 30) Limited quantity definition.
- 31) What is class 7?
- 32) Procedure and precautions of loading class 7?
- 33) What is parametric rolling?
- 34) How do you overcome?
- 35) When you busy with ballast operation are you going to relieve 2 officer at 4 pm?
- 36) What are the working hours?
- 37) When you on watch 5mb less than normal in Barometer.
- 38) What is Buys ballots law?
- 39) Just after departure while turning the vessel listed to one side.
- 40) How do you correct the angle of LOLL?
- 41) How do you find SF & BM manually?
- 42) What are the new rules?
- 43) Deck log book & OLB.
- 44) When PSC on board what is your action as C/O?
- 45) What PSC Check On board?
- 46) If Colombo flag vessel come in to Colombo port can PSC check that Vessel?
- 47) What is flag state & port state?
- 48) SOLAS new amendments.
- 49) What is polar Code?
- 50) Oil spill on deck actions as C/O?
- 51) Full procedure of Dry docking.
- 52) Vessel Grounded & No-1 Port ballast tank bilged.
- 53) How to calculate P force and Loss of GM?
- 54) What Channels do you watch at the bridge watch?
- 55) GMDSS log book entries.
- 56) What are the Daily/weekly/monthly tests of GMDSS Equipment's?
- 57) FW Tank inspection frequency.
- 58) FW testing frequency.
- 59) What conventions governed these tests?

If your company ask you to join as C/O do you accept? **YES**

OK All the best.....

Thank you very much all the lectures at CENEC Maritime Campus (Shane Sir, Capt. Kothalawala, Capt.Ranjith, Capt.Dolapeella) and all my friends who gave me support and courage.

I wish You All the Very Best Mates.....



Channa gamage

EXAMINER :CAP.SMS BANDARA

31.05.2017

- (1) What are the new regulation COLREGS (he is expecting rule no 39,40,41)
- (2) What are the factors for safe speed?
- (3) What is restricted visibility?
- (4) What is fog signal at anchor?
- (5) Power driven vessel underway what should not do?
- (6) Why gyro not reliable for higher latitude
- (7) What are the dilution method and displacement method tankers (inserting system?)
- (8) How to new regulation come into force sir lankan regulation
- (9) SOLAS new amendment
- (10) New amendement for STCW
- (11) what is MLC
- (12) Chief officers duites according to MLC
- (13) what is regulation for launching free fall life boat
- (14) How you simulate launching free fall life boat
- (15) What is MARPOL?
- (16) Garbage discharging regulation
- (17) Contain in garbage management plan
- (18) Who you implement garbage management system on board
- (19) How you prepare the vessel for load line survey
- (20) How many load lines in the ship
- (21) What is CSR?
- (22) What is the ISM CODE?

- (23) How you train the cadet
- (24) One crew member drunk and unconscious what is your action
- (25) Loading procedure for 50000 t bulk cargo
- (26) What is stowage factor?
- (27) Stability criteria for Cargo ship
- (28) How you load heavy cargo
- (29) What is load density?
- (30) How you calculate how many damage
- (31) How you secure heavy cargo
- (32) What are the contain in csm
- (33) How to carried out draft survey
- (34) what is loadicator
- (35) How you check accuracy of loaicator
- (36) What CSC Plate in container ship
- (37) What are the contain in csc plate
- (38) What static electricity
- (39) Who you prepare vessel for heavy weather
- (40) How you lash LSA Item during heavy weather
- (41) How you identify your anchor is dragging
- (42) Anchor is dragging, what is your action
- (43) who you prepare vessel for drydocking
- (44) What are the statutory certificates

Special thanks to all lectures in CINEC ad all my friends who supported me

2

Class 2 Oral Examination

Candidate: C.K. Kumarasiri

Examiner: Capt. Upul Peris

Date : 01/03/2017 (1st Attempt)

1. **What you should not do in Restricted Visibility as per COLREG Rule No 19?**
2. **Definitions – Restricted Visibility, WIG craft**
3. **What are the applications of COLREG – Rule No 1**
4. **How do you depart from the rules in COLREG – Rule No 2 part b**
5. **Light signal , Day signal and fog signal of a Pilot Vessel**
6. **Latest amendment to COLREG - PART F – Verification of compliance with the provisions of the Convention - Definitions, Application & Verification of compliance**
7. **What are the Main Concepts of MARPOL Annex VI – Prevent air Pollution form NO_x SO_x CO₂, Ozone Depleting substances , Volatile organic compound , Green house gases & increase fuel efficiency**
8. **What is MARPOL annex II ? Regulations for the Control of Pollution by Noxious Liquid Substances in Bulk.**
9. **Why MARPOL annex II gives only Control measure instead of giving preventive measure?**
NLS can create major hazard to either marine resources or human health but under annex 2 , after pre washing wash of chemical tanks can be discharged in to sea under some criteria. This is the only annex which gives permission to discharge small quantity of Harmful substance (NLS) in to sea
10. **Action after accidental activation of EPIRB – Switch off EPIRB , Send cancelation message to nearest MRCC and all stations via Inmarsat C, Reset EPIRB, add entries to GMDSS log book**
11. **Entries to GMDSS log book as an OOW – ship position UTC date and time details of Distress , safety , urgency messages and position of that incident received frequency RT frequency. Reporting to VTS during arrival/ dep or crossing reporting lines. Malfunctions to GMDSS equipment during the watch. Open and close radio watches.**
12. **How do u carry out garbage management onboard as a CO- conduct a meeting and explain everything in the garbage management plan, and examiner want me to explain contents in GMP.**
13. **What is D1 and D2 as per ballast water convention? Ballast water exchange standards and performance standards.**
14. **Expand the meaning of COLREG and Ballast water convention? Convention on the International Regulations for Preventing Collisions at Sea, 1972 / International Convention for the Control and Management of Ships' Ballast Water and Sediments.**

- 15. Chief officer's records as per MARPOL annex VI – weight of cargo and ballast onboard**
(voyage vice)
- 16. DG container on fire under deck as CO what is your action?**
He just want to hear that I use EMS in IMDG supplement and take action according to that.
- 17. ECDIS performance standards?** Read IMO resolution A.817 (19)
- 18. What is SENC and displays of SENC?** Read above resolution, answer is there
- 19. What is Safety contour, safety margin and safety depth?**
- 20. How PSC officer check your ECDIS is updated –show the entries of NP 133C (Admiralty ENC maintenance record)**
- 21. What is a protocol and SOLAS protocols? 1974 and 1988 protocol**
- 22. What is squat? And squat formula?** Block coefficient * $V^2 / 100$ (open ocean) or 50 (shallow waters)
- 23. From where you find ship's cargo gear testing information?** Register of lifting appliances and Items of loose gear.
- 24. You get instruction to load bulk 50,000 T +/- 10%, How do you determine whether you can load this cargo amount?** Read and understand charter party. Get cargo info from it. Find total cargo vol of my ship by referring ship stability book let, max cargo weight = vol/S.F of cargo. Make sure load density of the cargo hold is not exceeding. Then I add all consumables, light ship disp. Constant, un pumpable ballast to calculate max departure displacement. Then find out critical point of the passage (it can be dep draft , arrival draft or winter load line zone...) and calculate displacement of the vessel for that point to check ship is not violating load line regulations or draft restrictions.
- 25. ECDIS display shows error message "use paper charts" what does it mean?-** No official charts (ENC) in current position
- 26. SAR 3 general levels of co-ordination and who is On scene coordinator? his duty?**
- 27. Contents of DG declaration and DG manifest?** DG manifest comes under FAL convention it is a FAL form use to get inward/outward port Clearance usually it posted on bridge and ship's office to get information of onboard dangerous goods.
- 28. How do you ensure that you have sufficient lashings to lash containers of container vessel?** By Prepare lashing plan , you can create lashing plan on loading computer

Examiner : Capt. Sunil Jayaweera

Date : 30/03/2017 (2nd Attempt)

1. **Function of On scene coordinator? Does he need to be in the distress location or not?**
2. **In which publication is mentioned about On scene coordinator? IAMSAR Vol III and Examiner ask me to show it in IAMSAR Vol III**
3. **What is meaning of ECDIS manual updates? How do you identify manual updates on SENC? In FURUNO ECDIS shows small orange dot bellow the manual update this can be change as per the ECDIS type.**
4. **What is loadable quantity? Give same answer like "how to calculate max cargo to be loaded to your vessel".**
5. **DG container on Fire Under deck Cargo hold No 2, what is CO action?**
6. **If you have all safe facilities to throw this container over board will you do it or not? Best action is to extinguish that container using fixed fire fighting system. If we are unable to do so we have to throw this container to sea to minimize damage to other DG containers onboard.**
7. **What is volumetric healing moment?**
8. **Cargo trimming procedure? As per IMSBC code AOR less than 30 have to trim the cargo, 30-35 – max height between lowest point and highest point of cargo exceed 1.5m trim cargo, more than 30 max height between lowest point and highest point of cargo exceed 2m trim cargo**
9. **What is high density cargo How to load high density cargo, what are dangers of high density cargo? SF less than $0.56 \text{ m}^3 \text{ t}^{-1}$, I told all the dangers associated during loading, carrying and liquefaction, chemical hazards.....**
10. **Required documents during DG container loading- shipper's declaration, DG plan, cargo loading plan, Lashing plan, packing certificate, container gross mass verification declaration.**
11. **What is the incident behind container gross mass verification declaration? MSC Napoli disaster**

Examiner: Capt. Samantha Bandara

Date: 09/04/2017 (3rd Attempt)

1. You get instruction to load bulk 50,000 T +/- 10%, How do you determine whether you can load this cargo amount?
2. Required Document during cargo loading on Bulk Carrier?
3. Contents in a Loading plan?
4. Where you find load line zone chart?
5. Function of On scene coordinator?
6. EPIRB is accidentally activated what is your action as OOW?
7. How to prepare for a load line survey- He just needs to hear that I check any open condition of previous survey.
8. How to test loading computer and how often- open a new empty file on loading computer and select any loading/ discharging example from ship's stability book let and cross check output data with stability book's values. every 3 months and during load line survey annually.
9. Entries to GMDSS log book as an On scene commander-
10. Bosun and CO is entering to ballast tank and bosun suddenly collapsed what is your action as CO? Escape from the tanks asap, inform to bridge, wear BA set that must be stand by near the manhole enter to tank with another BA wearer , pick up boson from the tank using stretcher.
11. How to carry tank inspection what are the checks in the tank?
12. Safe procedure to enter in to tank- enclosed space entry permit.....
13. Difference between the code and Convention- just tell that convention is mandatory & he accepted.
14. Mandatory conventions- SOLAS, MARPOL, STCW, LOAD LINE & COLREG
15. Anchor is dragging during CO watch. action? Call master and call next OOW handover everything to them, take VHF and rush to the FWD mooring station with bosun and AB.
16. What is static electricity?
17. Benefits to seafarers under MLC 2006- examiner likes to hear complaining procedure under MLC.
18. SOLAS protocols ?

Oral Examination Questions

Date: 28.03.2017

Examiner: Capt: S.M.S Bandare

Candidate: D.A.S Perera



1. You are requested to load a Bulk Carrier of 50000 Tons of cargo (+/-) 10%. How do you plan? (Arr port/Dep Port in Summer load line, No draft restrictions, No density change).
2. From where you find the correct format of the declaration of cargo that the shipper has to produce to you. And its contents.
3. From where you find the individual schedules of cargo.
4. How you plane the loading.
5. What is the difference of a loading plan and storage plan of a bulk carrier?
6. What documents you make ready upon arriving the berth in respect to above loading.
7. What type of instructions will you pass to you duty officer during the loading operations.
8. What could be the reasons for a sudden list during cargo operations?
9. How can you ascertain the loading operations are in order as you planned?
10. How will you load a Ro Ro Fright carrier?
11. How will you carry out Tank Washing in a Chemical Tanker?
12. What is the requirement to carry a Oil Record Book part 1 & 2.
13. What is P & A Manuel? What information does it provides to master.
14. What is X, Y, Z Cargos of a Chemical tanker.
15. What is the plan to handle Chemical vapor during loading.
16. What is the plan to handle wash water of a chemical tanker after discharging?
17. Can you wash a Chemical tanker during the passage?
18. What is purging , topping up , topping off
19. What is Gas freeing
20. You are required to go forward at night to drop anchor. How will you go about?
21. Anchor is not picking up but you have winch power. How will you handle the situation?
22. Mediterranean moor, Running moor, open moor explain.
23. How will you identify in your watch if your vessel runs aground and your action.
24. How will you assist master in such situation?
25. In your morning watch you get a distress alarm position 12 NM, your action.
26. In your watch you get weather message of a TRS 1000 nm away your action.
27. Prior entering a heavy weather area what is your action as C/O
28. In the morning you find one AB Drunk and not reported to work your action, Ship is alcohol Zero tolerance



29. What is UNCLOS and powers of the coastal state in EEZ.
30. What is innocent passage?
31. You are required to make the ship ready for a Load line Survey. Explain the procedures.
32. How will you assist in order to receive a ISM Certificate to the vessel.
33. What is MLC, MLC 2006, and how will it benefits the seamen.
34. What are the latest SOLAS amendments?
35. Discharge criteria as per Marpol annex 1 , 2
36. From where can you get information of cargo lifting gear?

Friends, when you are answering, make them short and simple to the point, if they want in detail, then they will let you know.

Hereby I convey my warm regards to all lecturers at CINEC the CINEC staff and my friends who guided me to achieve this goal.

Class 2 Oral Examination

Candidate : L.L. Mahesh Cabral

Examiner : Capt. Samantha Bandara

Date : 22//02/2017



1. What kind of experience do u have?

I told him I have sailed on tankers

2. What u do before arrival port, Tell me full details of preparation.

Pre arrival meeting, Pre arrival check list, Preparations on deck, LSA FFA, Manifold, Tank preparation, CCR, check list, Sampler, UTI, Sample bottles, Required documents etc.

3. What u discuss in a pre arrival meeting ?

Cargo qty, manifold connection, mooring patterns, watch schedule, ISPS and gangway watch, Shore leave if any, Joining sign off crew, Visitors expected, Inspections expected, Notices to E/R, General discussion on Risk assessment, Cabins to be prepared etc.

4. Now vessel is along side, What are the activities ?

Loading master come on board with surveyors, Start gauging and sampling, Commence key meeting and complete ship shore safety check list. Once all ready start cargo.

5. What documents are u going to exchange at key meeting.

Cargo stowage plan, Cargo sequential plan, COW plan, Last load port ullage reports, Free water certificate, Certificate for samples, MSDS, Lab reports, Boycott letter, Certificate of origin, VEF, Bunker reports, Tank history report etc (I forgot to mention some of important documents in the above list at the exam)

6. What is BL ?

Bill of lading

7. What is the purpose of a BL

As a contract of carriage, As a receipt for cargo loaded on board, As a document of title

8. What do u mean by Document of title?

Cargo can be sold by using the BL before it reaches to a port.

9. How many BLs are u going to sign and what are u going to do with them ?

3 BLs will be signed, One is original and other 2 endorsed as 1st copy and 2nd copy, After signing master keeps the original and give the rest 2 copies to the shipper. (I didn't know about the endorsement part at the exam)

10. U get instruction to load bulk 50,000 T +/- 10%, How u determine whether u can load this cargo amount ?

Find out what load line zones vsI going to pass during the voyage, Find the limiting draft, Check whether any draft restriction during the voyage, So get the displacement for the max possible draft, deduct light ship, constant, fuel, FW, Un pump able ballast etc and get the loadable cargo weight, check against the given value, After that find out how much volume needed by using SF, check the hold volume, Find out the load density for each hold and check all cargo can be loaded safely without exceeding load density.

11. What is loadicator ?

It is the computer which we use to do the cargo calculations and find out stability criterias, SF, BM etc.

12. Do u need approval for that ?

Approved by the class

13. How u do the test and how often ?

Get the sample test conditions and enter in to loadicator and check against the results of the test condition. It must be tested every 3 monthly or as specified in PMS

14. What u do if the test fails ?

Inform class, Company technical department, Software provider and do the trouble shooting as per their instructions.

15. From where you going to find out about Cargo lifting gears?

Register of lifting appliances and item of loose gears, (I could not give the exact term of the registry)

16. What details can u obtain by this ?

Inventory, maintain records, Testing procedures, Spares, Certificates.

17. Examiner drew a map of North and S. America, Europe and asked me what currents in this area ?

N. Equatorial, S. Equatorial, Equatorial counter current, Gulf stream, Labrador current, E and W Greenland current, Norwegian current, Portuguese current, Canary current.

18. What are the cold currents and warm currents out of them.

Mentioned few cold and warm from the above.

19. Then he drew a TRS and a ship and asked me what actions to be taken if u are on watch and receive a TRS warning ?

Plot the position of the TRS on the chart, Mark probable and eminent danger areas, Probable path and alternate path as per the report, inform master, Get heavy weather precautions. (When answering do not tell any avoiding actions as it is masters duty)

20. What precautions will u take?

Get the heavy weather check list and comply, Inform all the departments, Secure bridge, Accommodation, CCR, Spurling covers shut, Hose pipe covers open, Extra lashings on anchors, Close water tight and weather tight doors, Close ventilations as appropriate, secure life buoys on deck and other precautions as your experience.

21. If u are the master what action will u take in this situation?

I said I will refer the weather reports, Company weather providing software (SPOS), Weather routings, and alter the course as appropriate to get minimum effect of TRS and inform all the concern parties regarding the deviation.



Class 2 Oral Examination

Candidate : L.L. Mahesh Cabral

Examiner : Capt. Sunil Jayaweera

Date : 20//03/2017



Examiner checked the remark from previous attempt and went through the check list quickly.

1. **He asked me about BL, Lifting appliances and item of loose gear, as I could not answer properly last time, then started asking about cargo documents.**
2. **You are on a container vessel, What documents are going to hand over at loading port ?**
Container loading plan, Reefer plan, DG plan, If any certificate requested by the shore. Examiner was not happy with the answer and he asked me whether I have sailed on container ships.
3. **Tell me what documents are u giving on a tanker?**
Cargo stowage plan, Cargo sequential plan, COW plan, Last load port ullage reports, Free water certificate, Certificate for samples, MSDS, Lab reports, Boycott letter, Certificate of origin, VEF, Bunker reports, Tank history report etc
4. **What do u mean by Boycott letter?**
It is a letter given from the country of loading, saying the areas which particular cargo can not be discharged.
5. **You are arriving the jetty, how u do the preparations?**
Get the pre arrival check list and comply, Get the moorings, Rat guards ready, Scuppers closed, Get the Fire fighting gears to manifold and Foam monitors pointed at the manifold, Get sopep equipments to the manifold, Drain all diptrays, Try out the Gangways, Cranes, Ventilations to be closed, Manifold reducers to be changed, Try out the fire wire morters, Pump room to be checked-pumps, oil level, bilges, alarms, Cargo tanks to be positive pressure and O2 less than 8%. Give sufficient notices to engine room.
6. **U have arrived the port of loading now what are the actions u will take as C/O?**
After safe mooring, inward clearance, Loading master surveyor will come on board, Complete key meeting, Ship shore safety check list, Then surveyor will start gauging the tanks, by the time the loading arm will be connected. Do the lining up for the tanks, Ask the terminal to start the cargo at initial rate as agreed, OOW at manifold, crew at lines, pump room, other side manifold and one at the Gangway, after confirming receiving of cargo increase the rate to maximum and open required number of tanks, Once all settle and no leaks, OOW will be called back to CCR and hand over the watch.
7. **What is ship shore safety check list?**



It is the check list to be completed to make sure the safety precaution and measures are taken as required and adequate. There are items to be permitted, Agreed and to be rechecked at agreed intervals.

8. Tell me few important points in this check list?

Cargo stopping signals in case of emergency, Emergency stops locations, Wind speeds to stop cargo, Communications, back up communications, Fire fighting and pollution prevention equip. etc

9. How u do gauging ?

There are 2 methods of gauging, closed method and open method, Closed method by using UTI, closed method by using sounding rod.

10. Why they prefer closed method?

It will prevent IG or HC coming out of tank.

11. When u are loading, how you vent out?

Venting is as agreed in the key meeting, Either by mast riser or by the vapor line at the manifold.

12. Suppose your IG plant failed while loading, What is your action?

IG plant does not required at loading as we arrive with positive pressure and O2 less than 8%.

13. IG plant fail when discharging, what is your action and reason?

I will stop discharging immediately. If I continuously discharge tanks will have a negative pressure as there is no IG supply.

14. What is a PV valve and how it works?

It is a safety device given to each individual tanks to release excessive pressure or vacuum. If the tank pressure exceed the rated amount, pressure side will release the excessive pressure, If vacuum, vacuum side will suck in air and release the vacuum.

15. So are u introducing normal air in to the tanks, Is it ok to do so?

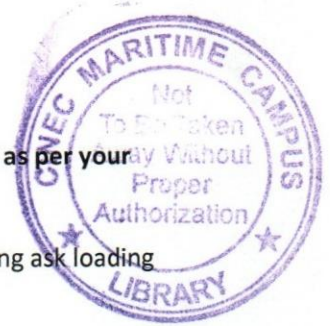
Yes it is in case of an emergency to release the vacuum. I will not let that situation to occur, When the tank pressure comes down to negative I will top up the tanks by using top up generator.

16. What maintenance will u carry out to PV valves and duration?

Weekly during Saturday routines we exercise the PV valves, Greasing the nipples and checking flame screens as per PMS

17. How u check the leaks and how will u repair them?

Pressurise the tanks and then we can hear if any PV valve is leaking or by the smell of the IG. Clean the surface of the leaking surface, do lapping.



- 18. When loading is completed, terminal says they have loaded full amount. and as per your calculations 200t short. What is your action?**
Re do the calculations, check against surveyors calculations. If both are matching ask loading master to check his calculations again.
- 19. Loading master confirms his calculations are correct, What is your action?**
Then it must be a leak from one of the tanks to adjacent ballast tank or cofferdam. Sound all the tanks.
- 20. One cargo hold is damaged, cargo now is in a ballast tank too, What is your action ?**
Inform concerned parties (Shipper, Owner, P&I etc), Try to unload cargo and do the repairs at the same port if facilities available.
- 21. No facility to repair, What u will do?**
I will remove the ventilation and fix the spare PV valve carried on board and inert the particular ballast tank by using flexible hoses carried on board and proceed to a port where It is able to do the repairs.
- 22. After loading oil cargo how will u calculate the figure of loaded quantity?**
Check the ullage of each tank and get the volume by hydrostatic tables, and get the weight by using the density?
- 23. What density will u take for calculations.**
We will get the Avg temperature of each tank and find the Avg loading temperature and get the density for that temp and do the calculations. Final figure will be given at 15 Celsius or 60 Fahrenheit. Conversion factors can be obtained from the ASTM tables.
- 24. Charter wants you to load 100% of cargo in all tanks, How can u load?**
I told him we can not load we have to keep allowance for expansion.
- 25. You are going from hot climate to cold climate so no expansion, how will you load up to 100%?**
I told him it is not practicable, even if we load 100% and go to colder area, holds will go to vacuum condition. And high level alarms are fitted and can not load more than that. Then he said u can bypass alarms and what u will load. Then I told him I will never load anything more than the certified amount.
- 26. U get instruction to load bulk 50,000 T, How u determine whether u can load this cargo amount ?**
Find out what load line zones vsI going to pass during the voyage, Find the limiting draft, Check whether any draft restriction during the voyage, So get the displacement for the max possible draft, deduct light ship, constant, fuel, FW, Un pump able ballast etc and get the loadable cargo weight, check against the given value, After that find out how much volume needed by using SF, check the hold volume, Find out the load density for each hold and check all cargo can be loaded safely without exceeding load density.



27. What is TML and what happened if u exceed TML?

Transportable Moisture Limit, Maximum allowed moisture content in a cargo that can carry safely, If exceed the TML, liquefaction can occur.

28. Tell me what cargo mostly exceeds the TML?

Plant orientated cargo, Edible cargo

29. You are on a car carrier, How u ensure that your cars are properly secured?

I will make sure that all the cargos are secured as per the cargo securing manual

30. What are the content of CSM?

Securing materials, Inventory, Maintenance, Securing points, Certificates, etc.

31. What is CBD, Day shapes, Lights, Sound signal?

Definition as per Rules

32. You have a fishing boat and u are CBD, what is your action?

As per rule nu.18 fishing vessel must keep clear of me, So I will navigate with extreme cautions by adhering to my present condition.

33. Ok he is not taking any action?

I will sound at least five short and rapid blasts, He asked me to show the sound signal.

34. You are approaching a intervening obstruction on a faire way as a chief officer what u will do, u are on the bridge?

If near a bend, or intervening obstruction I will have to sound one prolonged blast, and if a vessel coming from other side she will also sounds the same signal after hearing mine. So to hear that sound no chipping or buffing or any other jobs which make loud noise on deck must be allowed. So as a chief officer I will make sure no such sound on deck and I will plan the job order for that.

35. What is BIMMS?

It is an agreement between Bangladesh, India, Myanmar, Maldives and Sri Lanka to reduce the requirements on certification of sea farers as less availability of officers. So Officers having NCV COC can do the voyages between these countries.

36. What is SUA convention ?

Suppression of Unlawful Act, If any dispute or illegal activity done by a ship in their territorial waters, the state government can board the vessel upon the permission from the flag of that ship. If not the permission can be obtained from the secretary general of IMO to board the vessel.

37. What are the annexes of Marpol?

38. What is SEEMP and under which annex?

Ship Energy Efficiency Management Plan, under Marpol annex 6. It is to increase the efficiency by burning low fuel.

39. What is "Just In Time"?

Vessel to arrive at it's optimum speed and most realistic ETA to be provided, so that the cargo can be arranged at the jetty at the time of ship arrival, so no waiting charges or ware house charges.

40. Where it is mentioned about innocent passage and what do u mean by a innocent passage?

UNCLOS – United Nations Conventions on laws of the seas,

It's a passage not prejudicial to the peace, good order or the security of the coastal state.

41. What is Tsunami?



- The energy carried by the swell and waves get accumulated and as a result making high amplitude swells. This is very dangerous at coasts and less dangerous at open sea. (I was not so sure about this answer, but examiner did not say anything)
- 42. You are on watch, u receive a Tsunami warning what actions will u take?**
Plot on the chart the predicted area, Inform master and comply with heavy weather check list.
- 43. What are the monsoons over sri lanka and when and how it occurs.**
NE – Dec – April, SW – June – Oct, NE Monsoons occur due to Northern winter and Southern summer. Due to summer, Surface air will be heated and rise up, creating a low pressure at the surface. So the wind blows from high pressure winter areas, Vice versa occurs for the SW monsoons.
- 44. You are on watch, and ship grounded, What is your action?**
Stop engines, Emergency alarm, Appropriate Day and night signals, Muster and head count, check for casualty, Master and 2//O on bridge, communication and incident reports, Check list from Emergency Respond Manual, Check the depth all around, Sounding of tanks, Do the damage stability calculations and find out how much water to pump in or out, or what to do for refloating. Try to minimize the pollution if any. (He asked me the day, night and sound signals for a aground vessel)
- 45. What is damage stability booklet?**
It is a book providing all the details about all openings on board and adjacent compartments. If any part is bilged, when fully loaded and partially loaded. Permeability of each hold, list trim, loss of GM, GZ, RM etc is given.
- 46. How will u come to know how much water to pump in or out?**
I will use the loadicator in damage stability mode and check by entering figures as per the damaged stability.
- 47. If u are loaded with oil cargo how u are going to minimize the polotion?**
By listing, trimming or transferring cargo to empty or slack tanks. If not cargo can be transferred to ballast tanks and make and entry in the oil record book.
- 48. What is interaction?**
It is due to pressure induction at the different places of the ship due to movement of the ship and water. Ships get attracted and repels due to interaction.
- 49. What is the danger in interaction when overtaking?**
Smaller vessel can capsize due to high interaction. (Examiner asked me to draw and show him)
- 50. You are on watch, and arriving to an anchorage, What are u going to do?**
Complete pre arrival check list. Prepare anchoring check list and anchor watch control sheet. Call master as mentioned. Inform engine room for reduction of speed. Call bosun and ask him to unlash and prepare anchor fwd. once vessel arrived to the anchor station proceed forward for anchoring.
- 51. 2/O is going for anchoring and u are on bridge, Master is busy with navigation and asking u to suggest him an anchor posn, How will u give the posn?**
Check on the ECDIS for number of ships in the anchorage, find a suitable place with enough sea room to swing. Check the direction other vsls are heading. Select a position by taking in to account, period of stay, depth and traffic. (Then examiner said u don't have an ECDIS)
Then I said I will use RADAR and AIS (Still the examiner was not happy with the answer)
- 52. How u prepare your vessel for Dry Dock?**
As given in the Oral book.



53. How do u make the repair list?

Standard repair list can be extracted from PMS, Other repairs which can not carried out on board, plate renewal, modification items will be added to the list.

54. How u will decide what to put in the repair list other than the standard list. ?

Check the class status report for any conditions of classes are there. Add them and other modifications and renewals, repairs which cannot be done on board will be added after discussing with the marine suptd. (Examiner was not so happy with the answer)

55. What is Flag state and Port state?

Flag state is the country where the ship is registered and flying the flag of that country, They will ensure the compliance with the regulations made by the organization.

Port state is the state of a port which the vessel has arrived, They will also check for the compliance of the regulations made by organization.

56. What is vetting inspection and how your prepare your vessel for vetting inspections.

Vetting inspections are carried out for commercial purpose. Higher the grading more cargo ship will get. Vetting inspection usually carrying out twice a year.

Vessel can be prepared for a vetting inspections by using vetting guide, which gives all the items which are going to be checked by the inspector.

My Sincere thanks to Shane Sir and all the lecturers and library staff at Cinec, and to my class mates who were with me always, helping and encouraging me for the success. Read preparation for oral examinations book at least twice before u go for exam. All the best.

Orals examination-CHIEF OFFICER AND MASTER 500GT OR MORE

Candidate **W.U.K.FERNANDO**

Total Time 2 hours 30mins

Examiner **Capt: UPUL PERIS**Date **21/02/2017**

- 1 what are the standards as per ballast water convention in relation to ballast water management?
D1-exchange standard
D2-performance standard
- 2 What vessels and which standard should they follow?
Explain the phase in time schedule as per new builds and existing vessels
- 3 How can vessel achieve the D-2 standard?
BW treatment plant(heat/UV/chemical/filtering)
- 4 what are documents required to be on-board in relation to ballast water convention?
Int BW management certificate, BW management plan
- 5 What are the content of a ballast water management plan?
- 6 Who approves the BW management plan?
- 7 Which document states the presence of Ballast water treatment plant?
- 8 you are on a container vessel and charters propose you to load 2000 teu in the next port?
(Explain the full procedure starting from dead weight calculation, distribution on the vessel, vessels teu capacity, port rotation, stability and stresses, load line and draft restrictions.)
- 9 in loadicator what height is inserted as the vertical Centre of gravity of container in order to calculate vessels final KG?
- 10 how do you verify weather the loading computer functions properly or not?
- 11 How often do have carry out this test?
- 12 What are the documents required in relation to carriage of DG?
- 13 What are the content of DG manifest, and use of it?
- 14 50000 tones of bulk cargo is proposed to load, how will you calculate if the vessel can accept the proposed quantity or not?
- 15 What are the annexes of marpol, what are the plans under annex 6?
- 16 What is seemp, and what are the duties of a chief officer in relation to seemp?
- 17 What are the records you have to maintain in relation to seemp?
- 18 How can you ensure that the vessel comply with annex 5 of marpol?
- 19 What is nearest land and base line, how will you identify the limits of base line of coastal state?
- 20 what garbage you can dispose to sea and how?
- 21 What is garbage management plan and content of it?
- 22 what is the act governing the shipping of sri lanka?
- 23 how the STCW requirements are in cooperated to sri lankan law?
- 24 what is the IMO and its function, composition of IMO, and how new regulations are introduced?
- 25 How will you make sure that the vessel security is maintained as required?
- 26 what are the content of SSP?
- 27 If the master is SSO and second officer is DSSO, as chief officer to you have the access the SSP.
- 28 Master has gone ashore and boarded local authorities are requesting from you the SSP to verify a matter relation to a non-compliance of security measures. How will you go about it?
- 29 what is the procedure to reveal the content of the SSP to a third party?
- 30 What is parametric rolling?

- 31 What is the effect over vessels in terms of stability when the vessel is experiencing parametric rolling?
- 32 What is list and what is LOL, How to correct them?
- 33 What does it mean statutory certificates?
- 34 What is the case in relation to Herald of free enterprise?
- 35 What are the outcomes in relation to regulations basis of above incident?
- 36 What is ISM and what are the documents required under ISM, and under what convention ISM comes?
- 37 There is a crane in your vessel and how will you find out the details of next survey?
- 38 which convention governs the regulations in relation to lifting appliances?
- 39 What are the surveys and inspection that has to carry out in relation to lifting gears?
- 40 To what load the cranes are tested?
- 41 how will you determine the proof load test of a crane?
- 42 within how many years should the wires be changed in cargo cranes?
- 43 Solas drill requirements of davit launched life rafts, enclosed space recovery, rescue boat launching?
- 44 How will you arrange and carry out a recovery of person from water?
- 45 what are the content of the plan in relation to recovery of person from water?
- 46 Who approves that plan?

Chief Mate Orals

Examiner: Captain Sunil Jayaweera

Candidate: N. S. Babapulle

Date: 17.02.2017

1. Started off by asking me to tell him about myself, and then asked me to tell any incident that happened onboard, I told about loss of containers.
2. What will you do as chief mate to avoid such an incident: Avoid heavy over light containers, check lashing before encountering heavy weather, checking gross mass verification certificate.....
3. Day and night signals for trawler, definition of a trawler, what is purse seine gear, what are the lights for purse seine gear, if you have outlying gear extending more than 150m what is the light, crossing vessel on the starboard side → action of give way vessel and standby vessel if the other is not taking action?: as per COLREGS
4. Restricted visibility, vessel on the port bow, fishing vessels around, actions?: Expects answer including fog signals, calling lookout, master, helmsman, reducing speed, asked what would be the safe speed for that situation will be.
5. How do you know there is a risk of collision? Plotting on radar and taking compass bearings
6. What do you use to take bearings? Pelorus or azimuth mirror
7. Draw and show me a Pelorus
8. How do you know if there is an error in your azimuth mirror? By taking arrow up and arrow down readings for an object slightly above the horizon, if there is a difference error is present.
9. What do you do then? Apply the error to the readings, error is the difference in readings/2, added to the lower readings and subtracted from the higher readings.
10. You are going forward for anchoring, winds force 4-5? Risk assessment, crew debrief, equipment checked, PPE, illumination, deck area clear, lower anchor under power throughout.....
11. Dangers when anchoring in heavy weather under power? Told about possibility of anchor banging on the hull, vessel drifting due to wind, possibility of equipment failure, excessive stress on windlass, he was expecting something else
12. Risk assessment, how do you do it? Determine level of risk by considering likelihood against severity
13. Actions if risk is too high, company is asking you to send suggestions?: Said I will place additional controls and send to company again, wasn't happy

14. How to maintain register of lifting gear appliances?: list of equipment, certificates retained for all loose gear, defective items discarded, details of surveys, tests conducted,.....
15. What are lifting gear?: derricks, cranes,....
16. What are loose gear? Wires, shackles, blocks,....
17. When you inspect you found a shackle defective, actions?: replace with a shackle of equivalent specifications
18. How do you know it's the same?: test certificate
19. Mooring ropes, how do you maintain?: away from heat, chemicals, excess moisture, check condition regularly, ensure certificates for all are available.....
20. Why do you need the certificate, who will check it? Needed by SMS
21. If the condition is good how long will you use it for? Period given in the SMS
22. GM is in lower limit, you have to load one heavy container, will you load it? Said I will check the weight, enter into the stability computer, try to pump out some ballast and if GM is above lower limit I will load,... he wants you to consider the effects of consumption of fresh water and fuel during the voyage.
23. Relationship between deck edge immersion and GM: increases until deck edge immersion, rate of increase decreases afterwards, may ask you to draw how KM will change with heel.
24. How to load maximum cargo in a bulk carrier?: Check maximum displacement for the relevant load line zone, reduce light displacement, FW and fuel onboard, un-pumpable ballast, constant, present cargo...
25. What is anti-fouling convention, why was it adopted?: Harmful organotins causing damage....
26. What must you have to comply? IAFS certificate
27. Who issues it? Flag or RO
28. What is this RO? How can they issue? Recognized organisation, flag will delegate responsibility of surveying and issuing certificates on behalf of them.
29. Effect of marine growth and how to prevent?... reduction in efficiency, self-polishing co polymer paint
30. What to check when inspecting a ballast tank?: coating, anodes if fitted, sounding pipes and striker plates, extent of corrosion, structure and stiffeners....
31. Why do you need to check the striker plate? Extent of wear
32. How often do you inspect the tanks? Generally once a year, exact period will be given in PMS
33. What is ILO, what did they do for seafarers? Uniform labour standards, MLC
34. What changed with MLC? Alcohol levels, rest hours, accommodation, food, recreational facilities, minimum age, repatriation....

35. What does it say regarding repatriation? Costs to be borne by ship-owner
36. Minimum age for seafarers as per MLC? 16
37. Minimum age of seafarers as per Sri Lankan regulations? 18
38. Wind and current, how will it affect a vessel? Windage area, light vessels drifting more due to current than heavier vessels...
39. How to prevent corrosion in tanks? Coating, sacrificial anodes
40. How many anodes to put in a tank? Will be there in ship's plans
41. Which plan?
42. Dry dock preparation and work to be done in dry dock? Usual preparation, wanted to know how to prepare repair list.... Usual things to be done in dry dock explained
43. Why do you need to sound the tanks after sitting on the blocks? To maintain the same condition when re-floating
44. If GM is inadequate and you need to dry dock, what will you do? Shoring, wire ropes on both sides to stabilize
45. How to reduce P force, what is the equation for P force? By reducing trim, $P = (\text{trim} \times \text{LCF}) / \text{MCTC}$
46. What is critical period and critical instant? From first touching the blocks to lying overall on the blocks, just before lying overall.
47. In dry dock for a long time, what do you need to check before re-floating? Check dry film thickness of SPC, magnetic compass for induced magnetism..... said he wanted something more.
48. Deadweight cargo and measurement cargo, how do you differentiate? By stowage factor.
49. What do you have to consider in each case? Deadweight cargo have to consider load density, measurement cargo have to consider the volume occupied by the cargo in addition to the weight when deciding whether declared quantity can be loaded.

My sincere thanks to Shane Sir and all the lecturers and library staff at Cinec, and to my classmates who were with my every step of the way for their encouragement and support!!!!

All the best!!

Examiner: Cpt. Sunil Jayaweera

Candidate: M.R.L.K. Wijeratne

Dates: 18.11.2016 & 16.12.2016

Class II - Pass

Started with a friendly short chat about family, where I come from, studied at etc..

1. What are the difference between a container vsl and a bulk carrier? Give info related to your job as ch.off

in bulk carriers it is loaded any cargo other than liquid or gasses, such as particles, granular, which are loaded directly in to the cargo space of a ship without any form of containment, as a ch.off when loading bulk cargo the cargo hold volume to be considered, the weight shall not exceed the load density, cleaning of holds to be carried out before any cargo to be loaded, grain cleane standerd, thoroughly washed with sea water and fw, bilges to be cleaned and burlaps being put, relevant docs such as DOA, DOC, IMSBC code, Blu manual, Blu code, Grain code, grain manual, IMDG code, to be on board, in container ships, the cargo is placed in standard size containers such as 20", 40", 45" etc, and those containers are loaded in to the ship, in side holds and on deck as well, volume wise not necessary to worry as the containers are in uniform size but the stack weights, and stack weight of containers, height of stacks to be considered, the hold cleaning is not done as of in a bulk carrier, just average sweeping and cleaning is sufficient, bilges are cleaned but burlaps not placed, relevant docs such as IMDG, DOC, to be on board,

2. How do you load a container ship to the maximum she can carry, full procedure ? (As in orals book)

3. How do you load a bulk carrier maximum she can carry, full procedure ? (As in orals book)

4. You're having a gm at the lower limit, you need to carry out the ballast exchange at ocean, how do you carry out this operation?

vsl should be at least 200nm away from land and at 200 m depth, or, 50nm away from land at 200m depth, or the port facility has to designate an area. refer to the BWMP, there given info regarding which procedures to be followed up on exchange of ballast water, check the prevailing weather conditions, sea conditions, and expected sea and weather conditions, check whether it can be done by flow through method, if the BWMP indicates exchange can be done by flow through method this is better since the gm in limit, if not the empty refill method can be done, when doing it should be pre planned, sample planning to be carried out in the stability computer and check when each tank being pumped out and refilled how the gm will act, and the sf, bm values, list and trim, and the FSE to be taken in to account, accordingly prepare the plan and do it. i was given 4 tanks namely 2 top side tanks and 2 db tanks in here how will you carry out the operation if flow through method and also empty refill method? if flow through the the top side tanks first and then the db tanks or vice versa, if empty refill method- one top side tank port or stbd (assume it is port) and the stbd db tank, then the stbd top side tank and the port db tank. if flow through method at least 3 times the tank capacity to be pump in. if empty refill method at least 95% volumetric exchange to be carried out.

5. What is full ballast condition?

in the BWMP full ballast condition and light ballast condition is given with plans, full ballast condition means when all the ballast tanks on the ship is completely filled and the designated cargo hold is flooded with ballast.

6. How do you flood the cargo hold with ballast full procedure?

the cargo hold flooding with ballast will be carried out when necessary to increase the stability of the ship, usually when encountering bad weather in a laden voyage, the designated hold is situated at the COF normally so there will be a bodily sinkage of the vsl and rise to COG, and improve the stability condition of the vsl.

there are 2 ballast valves which is designate comes to this hold only, and these valves are kept closed by cover and isolated from the e/r,

clean the cargo hold thoroughly with sea water and remove any cargo residuals and odours, so that on discharging the hold the residuals will not block the suction,

calculate stability when flooding because FSE happens when half filled, and the stability after flooding, check the density of the water and sea whether is it going to exceed the load density once the hold is filled, in this hold covers there are usually fixed 2 ventilations on each hold cover, which should be kept open when filling and emptying, also it is a good practise to keep the other ventilation flaps opened as well,

remove metal covers to the ballast valves, open the bilge covers and take the bilge covers and fix up side down on the ballast valves possn, or else there will be a separate perforated cover for this purpose, and close the bilge hold with the 2 covers which was removed from the ballast valve possn, these covers are normally made in uniform size for this can be done,

prepare risk assessment, check prevailing and expected weather conditions, take soundings of adjacent tanks, discuss with master and the ch.eng about the flooding of hold, flooding should be done when there's calm weather and vsl upright.

start both pumps to pump in water, fill the hold to the maximum level and keep the ventilators opened all time until end of pumping out. due to vsl movement the water can escape from the ventilators so check daily and refill the hold to be at maximum level to avoid FSE.

7. Do you keep the hold covers open in this operation ?

not necessary but it is good practise to keep the hold covers partially opened, can monitor the water level visually, and also it will help to reduce pressure created on hold covers..

8. what will happen if the hold covers and ventilation flaps kept closed?

due to the creation of pressure when water pumping in, and due to vacuum created when water being pumped out the hold covers can get serious damage and the ventilators and vent flaps as well.

9. you forgot to open the ventilators and the hold cover is now damaged, you're at mid ocean, what is your action now?

inform master, owners, P&I club, this is a safety construction item, need to be rectified under supervision of a surveyor in the next port.

until that a temporary means will be supplied to keep weather tightness, investigate the area where the hold cover has damaged, place tarpaulin and cover that place, to reduce water ingress, place dunnage on top the tarpaulin, cement, and wooden battens and place another tarpaulin and cover the same area, tight with wires or ropes to the edges of the each ends, place a large tarpaulin to cover the whole area or the whole 2 hold covers to until below from the hatch coamings and tight to deck with wires or ropes, and tight with ropes the full length of the hold covers all around, and place wooden battens on the hatch coaming.

10. what is port use tank?

it is a designated tank to collect wash water from showers, laundry, sinks, galley etc and kept not to discharge at the port or anchorages due to regulation, or discharge to shore facility, shore connection should be available.

11. What is initial gm?

when a vessel is heeled to a smaller angle of heel due to an external force the COB will move towards the heeled side and the vertical line through COB will coincide with the centre line of the ship and there is initial meta centre, the initial meta centre for small angles of heel is not changed, so it is the same KM as calculated at her present condition, the COG is not changed, unless not changed any weights removed or loaded, the distance between the initial metacentre and the COG at present is called the initial GM.

12. how do you find the GM?

by taking moments about the keel, and knowing the final displacement,

Final KG= moments about the keel / final displacement

finding the KM from tables against the displacement

$KM - KG = GM$ solid

applying FSC find final GM. or called fluid GM

13. What is vessel CBD? definition, lights and day signal? (do not forget to mention the "power driven vsl" part as it is in the definition)

14. what is a Trawler ? definition, lights and day signal?

Rule no:26 (b) - A vessel when engaged in trawling, by which is meant the dragging through the water of a dredge net or other

apparatus used as a fishing appliance, shall exhibit:

- (i). two all-round lights in a vertical line, the upper being green and the lower white, or a shape consisting of two cones with their apexes together in a vertical line one above the other;
- (ii). a masthead light abaft of and higher than the all-round green light; a vessel of less than 50 metres in length shall not be obliged to exhibit such a light but may do so;
- (iii). when making way through the water, in addition to the lights prescribed in this paragraph, sidelights and a sternlight.

19. Trawler at anchor lights and shapes, sound signals?

2 all round lights in a vertical line Green above white, no side lights and stern light,

sound one prolong blast followed by 2 short blasts, at intervals not more than 2 minutes.

15. what is a fishing vsl? definition, lights and day signal,

16. fishing vsl at anchor lights and day signal, sound signal?

2 all round lights in a vertical line red above white, no side lights and stern light

sound one prolong blast followed by 2 short blasts, at intervals not more than 2 minutes.

17. fishing vsl, hauling nets, shooting nets, nets fast up on obstruction - lights and day signals?

Annex II - Additional Signals for Fishing Vessels Fishing in Close Proximity,
shooting nets - flag Z, hauling nets - flag G, fast on obstruction - flag P.

20. How do you measure the tow length, Towing vsl tow length exactly 200m, lights and shapes, sound signals ?

measuring from the stern of the towing vessel to the after end of the tow.

rule says tow exceeds 200 metres, three masthead lights in a vertical line, so I decide to say the towing vsl is less than 50m in length and tow exactly 200m, shall show 2 masthead lights in a vertical line, side lights, stern light, and yellow towing light above the stern. and diamond shape is not necessary to show since tow length is not more than 200m.

sound signal - sound one prolong blast followed by 2 short blasts, at intervals not more than 2 minutes.

21. tow length 200m and more, towing vsl exceed 50m lights and shapes, sound signals?

2 mast head lights for the towing vsl, 2 such lights additionally in verticle line, side lights, stern light, yellow towing light above the stern light, diamond shape at day, sound signal - sound one prolong blast followed by 2 short blasts, at intervals not more than 2 minutes.

22. dredger or u.w.o vsl, lights and shapes, obstruction side and free side lights and shapes, at anchor lights and shapes?

RAM lights, RAM shapes, obstruction side- 2 red all round lights at day 2 black balls, free side- 2 green lights at day 2 diamond shapes, under way- side lights, mast head lights and stern light, at anchor same lights without stern, side and masthead lights.

18. given a restricted visibility situation, vessel on port bow, about 6nm at collision course what is your action?

plot the target on radar, as per the rules I am the stand on vsl, she should give away to me, so maintain course and speed,
CPA and TCPA reducing and I find she's not taking any action to avoid collision, and there is no time to waste, I will check the available sea room, and if sufficient sea room is available and since there are no any other targets or objects in the radar, I will give one short blast take a broad alteration to stbd and keep clear of this vessel.

23. what documents you need after loading grain?

certificate of fitness for carriage of grain, BOL, mates receipts, fumigation certificate, draft survey report, port clearance, etc..

24. grain securing methods?

longitudinal subdiviosions, saucering, bagging, etc., gave with a little discription and was ok

25. grain criterias? (gave in my words and was ok)

26. Tanker operations - COW procedure?

since I had no experience on tanker ships he did not want many more, just normal procedure was sufficient, for more than 20000dwt tankers, Inert gas system should be operated, take permission from port, prepare check list, prepare risk assement, about 1m discharged and start cow with the discharging ops, there is a fix machine to do this ops, after the cow tank will be cleaned with water.

27. inside tank the oil and water is mixed what will happen then? (static electricity - spark and fire)

28. advantages of COW?

less clinnage, prevent pollution, increase tank capacity, reduced port stay, air pollution reduction, reduction of time and cost for tank cleaning, reduction of sludge amount, reduction of time for gas freeing, (he was not so happy with this answer and said there are more factors- but went to the next question)

29. what is the pressure should be inside tank when COW? + pressure

30. what is antifouling convention?

31. why it came in to force?

32. what is dry docking formula? I said about virtual loss of gm formula, was ok.

33. how do you arrange stability to enter dry dock?

explained few things from the orals book which I remembered at that time, said about the dry dock sends the vsl for required drafts, trim and stability conditions, and also in the dry docking plan there are the drafts, trim and stability condition for docking, I will arrange ballast and fw and discuss with ch.eng about using fuel oil tanks, to arrange to the necessary drafts, trim and stability conditions, try to minimise or eliminate the FSE, keep adequate positive GM, etc...

34. why going with stern trim? declivity , strengthened by sole piece,,

35. before dry dock, as chief officer what are you going to do? as in orals book blah, blah,,,

36. what are the checks carried out before flooding dry dock? as in orals book blah, blah,,,

37. Master sick, what are your going to do? as in orals book blah, blah,,,

-----END-----

The examiner in most of the questions in related to ror, stability and practical parts confused me, with facial expressions as if I was giving a wrong answer, and sometimes asking 'are you sure'? stay in your correct answer he appreciates that. As a person he's a good person, there were no any shouting, screaming or even if the answer is wrong there were complete discipline and decency in the person, so the stress at the examination was really less.

When I was referring to the past papers I always thought if the candidates had shared the given answers as well, for the benefit of the future candidates please try to share your answers as well,,thx...

Thanks to all the friends who supported me through out, Cpt.Kothalawala, Cpt. Ranjith , books, you tube and internet.....