

HOSHANG DATUR SIR MUM NOIDA QUESTIONS

24-01-2022

Int Purna Manjhi

Ext Hoshang Datur

Motor

- Type of engine
- why turbocharger is fitted
- why air cooler is fitted
- difference between plate type and tube type cooler
- Wear ring and lantern ring in centrifugal pump
- why sounding cap is provided with self closing in engine room and why not on deck
- boiler blowdown, why do we do it
- chloride is more what will happen
- hydrazine test, is oxygen desired in boiler water or not

Result : Pass

Int.Majhi sir ❤️❤️

Ext. Datur sir ❤️❤️

Safety:

1. Annex 2,4,5 discharge criteria
2. Cargo fire DCP how to extinguish
3. Machinery room fire CO2 hypermist and foam both

He asked for how to operate and checks also

4. Free surface effect and how to reduce

Electrical:

1. Star delta and dol starter difference
2. IR test what you measure how you measure
3. Earth fault and how to measure

4. Voltage regulation of alternator

AVR FOR- KVAR CONTROLLING

GOVERNOR FOR- KW

i will post late if i remember anything more

PASS BOTH

Thankyou all HATC - gives knowledge from very basics , SAHEEM SIR, SAURYA SIR for your videos and back support AND MY FRIENDS WHO HELPED ME A LOT 🙏

External : manjhi sir

Internal : datur sir

AVR full

Ir test

How to take

Iccp

Single phasing

Causes

Protection

Decider: what is exicter full

External : manjhi sir

Internal : datur sir(really good, bahaut aaram aaram se question puchte hai, and he makes sure you answer correctly)

MOTOR

Fuel pump full

How plunger controls the end of injection

Charging of lo in ref compressor

Safeties on air compressor

Where bursting disc is located and how it works?

(He said, It's fitted on intercooler)

So when will bursting disc burst?

If ref suction line have icing, what does it mean?

AE cc inspection

How to check floating of connecting rod?

How does air distributor works?

How the fuel cam reverses after getting signal from telegraph, signal is pneumatic or hydraulic?

In Tube type heat exchanger, what will flow in tubes in case of lo cooler?

Lantern and wear ring, where they fitted? what and how they do it?

MANJHI sir

External datur sir

MEP

compressor safeties

oil charging in refrigerator compr

bilge pump not taking suction

centrifugal pump parts

wear ring

boiler gauge glass blow down

Motor

scavenge fire in detail

fuel pump timing adjustment

aux engine low LO reasons

funnel sparks

27 jan

Ext: hoshang datur

Safety

Annex 4 discharge

Co2 regulations

Dcp extinguisher

Class A-60 bulkhead

A-30

Co2 cabinet door... how to activate

What if master valve doesn't operate...how will u knw master valve has not operated

Class k fire

Extinguisher for it... location

Safety in hot plate

Fixed fire system in galley

Some dcp hve to b operated after inverting why?

Foam applicator...how will u know ...low expansion or high expansion?

Hypermist operation

Sprinkler system

Cargo hold fire detection...where is detector located?

Internal

What do u understand by ism code

What is ur company sms

Elements of ism...list them

What is emergency preparedness what do u understand by it?

What your company does for it?

Coc 

Thanx saheem bhai

Internal-A srinivas Prasad

External-Dont know(But very nice person And Gives time to think n speak)

SAFETY

1)Type of Ship

Than asked Only 1 ship(I said 1st one bulk carrier)

2)Safety arrangements On bulk carrier in cargo holds?

3)Fixed foam fire fighting Arrangemnet for deck?

4)how to decide Low expansion and High expansion?

5)What Fixed fire fighting arrgmt in Engine room?

6)What Is class k Fire?which ext to extinguish it?what is fixed fire fighting arrangements for galley fire?

7)what Checks for CO2 room and how to know the total co2 bottles released after used in engine room fire? Some more cross ques

8)co2 room entry procedure?

9)what safeties are given on vent piper on deck in fuel oil tanks?

10)annex 5 discharge criteria for seca and non seca nd annex 4 Discharge criteria?

11)Diff bw list and heel,diff btw Stiff vessel and Tender vessel?

12)What is GM?GM is more for which ship bulky or container?

ELECTRICAL

1)Droop and where it is fitted(governor)

2)AVR and its working

3)How to check IR?why to chekh with megger if can be checked by Multimeter?

4)what is the sp gravity of Charged battery and discharged battery?

5)what instrument to use for sp grav check?

6)how to check Current and Voltage with Multimeter(he want to hear Using Terminals).

Asked me to left and rejoin immediately

Then Internal asked decider question

What is ISPS nad its Security level..

What to do in Level 3(He want to hear that no work is Done on port on deck in level 3)

Function 3 Clear 

Function 5 repeat 

Thank You friends for posting questions 

Thanks Saheem bhai for giving us a good Youtube channel for class 4 and thanks for crating such amazing wtsapp and telegram groups 

Function 4B &6

27/01/2021

Ext : Hoshang Datur

Refer LO charging

Boiler scum blowdown

Boiler one guage glass showing low level...what will your immediate action be

How can oil come to boiler

What will happen if oil comes to boiler

Why scum blowdown...how you'll get floating solids

Refer txv icing what will you do

How you'll remove moisture

Indication of air in refer system

How you'll remove

Explain vit

NDT methods

Annealing normalising nitriding

Difference between normalising and annealing

Scavenge fire actions

Big stud broken in engine..how will you remove

Knurling

Reaming

Also...slow turning of ME

Hydrophore no air...will it pump water...what will happen

28/01/22

Internal- Sujit Kumar das sir

External- Hoshang dastur sir

Type of ship

Igs explain

Ig trips and alarms

Why tanker has lesser freeboard

Fixed fire fighting in ER

Low expansion foam why is it called so?

Enclosed space entry and gases

Type of life boat is life boat considered as enclosed space

Types of rudder

Some more questions

COC 

Thank you Laxman bhai, saheem Bhai and Saurya Bhai ❤️ ❤️

28 jan

Mumbai

Hoshang dastur sir

Function 4b and 6

Type of ship

Type of engine

Main bearing removal, what to do if bearing found faulty or broken

Main engine crank pin bearing removal

Main engine con rod removal procedure

Type of turbocharger

Which type you had, why this classification in turbocharger advantages and disadvantages

Auxiliary engine type

Power ratings of ae

Rotocap overhauling and its working and its significance

Generator camshaft lubrication, how is it achieved

Boiler water test

Why ph should be between 9 to 10

Chloride level rising in boiler water reason

How to check tube leaking in dump condensor

Air compressor valve leak test

Air compressor unloader valve

Difference between air compressor and refer compressor unloader valve

Working of both

Bilge pump not taking suction

How reciprocating pump does not push out water through suction valve while discharging water

Refer refrigerent charging and lube oil charging

And many more

MMD MUMBAI

External : Hosang dastur sir

Internal : Sujit Das sir

Function Applied: Electrical and MEP

ELECTRICAL

Maintenance on starter

What can go wrong in starter?How do you rectify?

Motor safeties

How does undervoltage relay work?Can overload relay be of bimetallic type?

Which motor has high insulation in engine room?Why?

MSB safeties

What is arc chute?

What is more dangerous Contact making or breaking ?

Air gap

Single phasing?what will happen ?How much current will increase because of single phasing?

Syncroscope method.Required Parameters for paralleling

How reversible fan works in reverse direction?

MEP

Make of Diesel Generator

What job did you do when AE got overhauled?Checks done?

Conrod ovality,formula ,limit.Why increases?

Why we need butt clearance,and where do you measure it?

Why plate type valve used in compressor?Function of various plates used.

Tappet clearance procedure?Values,why both values are same?(since on my last sailed ship both values were same)

Methods to know unit at Firing TDC

Yes there are few more questions!

Internal Suggested : Don't say there are various methods to know unit is at TDC,but you know unit is at firing TDC in steps.Like you check pushrods are loose ,then you will check

that units pump guide sleeve and body cut marking coinciding.If still in doubt check cam and roller.

Result: Cleared both

Thank you everyone!

Huge thanks to HATC!

Date:27/01/2022

Int: Prasad sir

Ext: Dastur sir

Mot/Mep

Type of ship

Which engine

How many ecu,eicu, CCU

Slow turning

Reversing of cams

VIT full

Fuel pump beginning and end of injection

Tappet clearance

CC explosion of AE, why, how secondary explosion will not take place and no. Of crankcase relief valves in ae, working of cc relief valve

Purifier gravity disc inner dia significance, what if more what if less

Air comp suction valve leak how to detect when running

Ac capacity unloading valve

Ac valve type

Boiler water treatment which chemicals we dose and why

Caustic imbrittlement, where it takes place, how to control

Why Scaling of boiler tubes

How to control chloride level

Why Boiler man hole door why elliptical

Boiler water tests

What happens if boiler gauge glass breaks

Boiler gauge glass blow down

How are tubes joined to the tube plate

Why FWG efficiency will decrease

How is vacuum formed in FWG

Why wear ring given in centrifugal pump What happens when clearance between wear ring increase

What to inspect and change when overhauling centrifugal pump

Annealing and normalising

NDT test, which is carried out onboard

ext-hoshang datur sir

Int-meena sir

Safety-2/02/2022

Difference bulkhead A-60, A-30

Purpose of weak link in liferaft

MLC full

Diff. class k and class F fire

Panting

Difference in Tender and stiff ship

[3/22, 11:22 AM] Ms: 1. Vit and super vit

2. How lateral movement of ME is prevented (top bracing and position and types)

3. Crankshaft deflection

4. AE Fuel injector overhaul and testing

5. Crankcase inspection

6. Thrust block significance

7. Pilot burner overhaul

8. Types of burners and working

9. As a watch keeping engineer oil in hot well, action?

10. As a Watch keeping engineer sparks from funnel, action?

11.

[3/22, 12:59 PM] Ms: Mumbai MMD

22/03/2022

1st attempt

Function 4b & 6

Internal – subbarao

External- don't know

4b

Type of ship

Ship specification

Fuel pump reversing cross questions

VIT working

Survo motor how to work i.e.by air or oil he was asking

Turbocharger filter how to know it's dirty

Spark coming out funnel at night your action if engineers call alarm that what they do?

Slow turning reason

MEP.

Boiler gauge glass burst safety device how to work

Boiler blow down and cross questions

Pressure loss in hydrophore what will happen.

Crankcase inspection 4/s engine

Connecting rod bolt different main engine bolt often change reason

How check viscosity of LO in ship.

Tappet clearance what if it's zero and cross quations

Got MOTOR AND REPEAT MEP

[3/22, 2:07 PM] Ms: Mumbai MMD

22/03/2022

Function 4b

Internal – subbarao

External- dastur

4b

Type of ship

Engine specifications

Scavenge fire symptoms

Actions incase of scavenge fire

Mac safeties

JCW temperature rise reasons

Me and mc difference

Working of elfi

Result pass

[3/22, 7:07 PM] Ms: Mumbai MMD

22/03/2022

Function 4b

Internal – subbarao

External- datur

4b

Type of ship

Engine specifications

Scavenge fire symptoms

Actions incase of scavenge fire

Mac safeties

JCW temperature rise reasons

Me and mc difference

Working of elfi

Result pass

[3/29, 12:05 PM] Ms: Ext-Hoshang datur sir

Motor/mep

Type of ship

Type of engine

How many ships

What is d difference between engine

How bosh type pump works

Cross question

Beginning injection, end of injection,

Vit

Fuel rack

Type of fuel injection

How the injector and pump operated (Hps)

Hps explain

Type of turbocharger

Why cooler used after tc

Compressor safety

Location of fusible plug

Bursting location, purpose

Centrifugal overhaul

Wear ring clearance

What happen if it increase

Bilge pump not taking suction

Hole how to find

Boiler treatment, why, test

Phosphate test

How Ref comp oil filled

Boiler scum blow down procedure

Why intermediate vlv

Gauge glas broken action

What are the safety

Shell and tube type HE explain

How tubes attached both end

Why flexible one side

Fwg low production reason

Why Tappet clearness given

What will happen if not their

👍👍 ❤️❤️ all best guys

[3/29, 2:58 PM] Ms: Ext-Hoshang datur sir ❤️❤️

Safety:

Type of ship

Fixed fire fighting system on board

Co2 discharge criteria, how to know all the co2 bottles have been discharged.

Steering gear regulations and safeties

Mlc, how much rest hours and in which tile, what is tile 1

Free surface effect. Which will reduce fse, a larger length with smaller breadth or vice versa. Methods to reduce fse

Difference between listing and heeling

What is garboard strake and what is the strake on uppermost side of the ship

Pass COC 🤗🤗

[3/29, 2:59 PM] Ms: Int...purna majhi

Ext...hoshang dastur

Function 3

1.widas

2.type K or F fire

3.fixed fire fighting system onboard.. co2 system × so many qns.

4.tender ship , stiff ship ... so many ×××

5.free surface effect , reducing methods and xxx

6.panting, pounding

7.class A-60 bulkhead

[3/29, 3:06 PM] Ms: Ext- Datur sir

Mlc

Rest hours

Isps level 3 explain

Scaba checks

Co2 release procedure

Annex 1 discharge criteria

Grt Nrt

Why engine room sounding pipe are self closing but deck side not

Flare

What is strake

Sheer strake

Garboard strake

Freeing port

A60 A30 bulkheads explain

Stiff and tender ship

What will happen if metacentre goes lower than g

Pass

[3/31, 1:12 PM] Ms: Function 3 safety

Mumbai MMD

INTERNAL:- RAVILSETTY RAMA SUBBARAO

EXTERNAL:- Hoshang dastur (nice man asks simple question and gives time to answer..)

- 1. Type of ship (chemical tanker)**
- 2. Was there a pump room ? If no pump room then what is the name of the room
(Tank cleaning room)**
- 3. Safeties of tank cleaning room**
- 4. Arrangements for panting**
- 5. Class k fire which extinguisher will be used**
- 6. Which ship has large gm (bulk or container)**
- 7. How will you identify the CO2 bottle is fully released or not**
- 8. Master valve if stuck then what will happen (tell about relief valve on the line)**
- 9. Ism cross questions**
- 10. SMC and doc cross questions**
- 11. Difference between listing and heeling**
- 12. Difference between stiff ship and tender ship**
- 13. Why stiff ship has large GM**
- 14. How will you go in CO2 room after releasing of co2 and what all check will you do in CO2 room?**
- 15. What is GM?**
- 16. Purpose of freeing port**

17. Scaba checks and how to test the alarm function on scaba
18. Explain MLC (cross questions on rest hours)
19. Regulation for the CO2 discharge
20. Fixed fire fighting in the engine room

Safety 

Thanks everyone for sharing the knowledge

[3/31, 9:33 PM] Ms: Function 3 safety

Mumbai MMD

INTERNAL:- RAVILSETTY RAMA SUBBARAO

Ext.. Dont remember

Time :55 min

1. Type of ship
2. Collision bulkhead and cross quest
3. Panting pounding in detail
4. Which fire fightng on your ship (foam)
5. If hypermist is activated first any your CE wants to discharge foam what will you do..
(Willl you stop hypermist or keep it Running)
6. Procedure of discharging foam
7. Type of ship (ro ro)
8. Stiff ship and tender ship
9. Free surface effect full
10. Lifeboat davit safeties and crosss
11. Why self closing arrangement in sounding pipe and cross
12. Difference between stiff ship and tender ship and cross
13. lccp
14. Co2 bottle safety

15.safety in ro ro vessel (internal)

Func 5:

1. Megger in detail

2. Ir test full detail

3. Power factor

4 kvar

5 droop

6 leac acid and alkaline battery and cross

Rest forgot