

V. K. Chandrashekran SIR MUMBAI NOIDA

10/05/2021

Meena sir

Chandrashekharan sir

Safety-

Type of ship

Engine specification

Coal safety

Which fire system for cargo

How you know there is fire in cargo

How ur going to know temp in hold

Diff bet survival craft and rescue boat

What LSA carried on survival craft

Wht action in er flooding

What is difference bet direct bilge suction eme bilge suction

What is requirement for pumping er bilges

Difference bet special area and outside special area pumping bilges

Motor

Engine type

ME and GE difference

He want to know exact construction difference xxxxx

I said cross head bearing

Then he told ME is called crosshead ME wht u call for generator (dont know)

Scavenge high temp alarm came wht action

Turbocharger surging reason

Scavenge space inspection

Electrical-

What power on your engine

What is the function of frequency there

What is msb safeties

How overload alarm come reason

What will happen after that

Eme gen how starts

Battery safetyxx

Why ventilation is done

Battery maintenance (want to know value of specific gravity)

Some more Question i forgot

Mep-

Noise in centrifugal pump reason

What is npsh

What is cavitation

Centrifugal pump part name

Function of each part

How trueness of shaft is find out(i said by fitting on lathe machine and more)

Then parts of lathe machine

Function of lead screw

Type of purifier on your ship

Is it having clarifier

Purifier clarifier main difference

Too much vibration reason

Boiler Trip and alarm

And more Q i forgot

Got- motor and electrical

Attempt first.

Internal meena sir

External chandrashekhar. ❤️

Very good man.

Type of ship

Oil and chemical tanker

Safety

Load line marking

Free surfacy effect , what it affect to stability

When ship goes from river to sea draft will increase or decrease? Why?

Pump room or not ? No pump room on my ship , FRAMO is there

Which type of IG ? IG generator.

Trips of IG

Diff between PV valve and PV Breather.

Asked bunker tank entry , what physical cheks you do ie which gas present in bunker tank.

How will You check, by gasmeter.

What are permissible values of those gases

How to calibrate gas meter , by spam gas.

Emergency fire pump requirements.

Purification room fire as watchkeeper actions.

Engine room overhead crane safeties

failsafe brake means.

What is mechanism and what happens when during power ON and OFF.

Remaining forgot.

Electrical

Ship power system - 440v 60Hz AC

Why Frequency is important, what happens when change, formula of frequency

Preferential trip why?

How it operates?

Nonessential load?

MSB safeties

Which load connected to Emergency generator

Intrinsically safe meaning?

Which intrinsically instrument used in chemical tank

UTS for ullage and sounding.

What is Deadfront

Forgot remaining

Motor

Your ship ME and GE

Constructional difference

How gudgeon pin lubrication done

Why different grade lubrication oil High TBN

How lub oil from AE removed from liner? by scrapper ring.

Sequence and name of remaining top piston rings.

When piston removed what you will check in piston ring.

How you take butt , axial clearance after piston removal?

Tc Surging reasons.

Black smoke reasons.

If one air starting valve of ME leaking how will you come to know as a watchkeeper when ME is running..

After major overhaul of Gen Eng what are checks before start you will do?

MEP

What is NPSH.

Effect if NPSH is negative

Centrifugal pump shaft trueness how to check.

Said on lathe mc by holding between Chuck and mandrel .

Where you fit mandrel , in tailstock

When you take high specific gravity what you will check.

Said Gravity dis

By nomogram.

Then he specifically ask which one you select bigger one or smaller one.

Boiler trips ,

What happen if flame failure not work? Fuel drip and boiler fire if fire manually by bypassing prepurging.

Remaining forgot

Got all 4. 😊

10/05/21

MMD Mumbai

First attempt

Int: Meena sir

Ext: Chandrasekhran sir

360° VIEW OF YOUR ROOM

Safety-

Ship type (vlcc & vlec)

Tell me about speciality of vlec (i answered tank structure GTT membrane type)

Material of membrane

Temperature sensor how many and where in tank

What is liquefied gas definition as per IGC

Pump room safeties

E/R overhead crane safeties

Enclosed space drill solas requirement

Gas checks and their value

CO2 flooding

Dip tube in CO2 reason

Pyrotechnics

Motor & MEP-

Diff bw main and aux engine

Camshaft speed in both

Turbocharging system and why pulse type in dg

Cold filter plugging point

Fwg vaccum not forming

Ref circuit

How can refrigerant cool if it is at room temp (latent heat of absorption)

Refrigerant oil properties

Air compressor bursting disc burst during maneov.

Air compressor working pr

Type of air compr you had, how do you overhaul it.

Starting air line safeties

Boiler water too alkaline what will you do, what all chemicals added in blr wtr.

How acidic corrosion happens in boiler (name the chemical)

What all maintenance you did onboard (purifier vertical shaft, dg decarb)

Purifier overhaul from starting

Dg decarb piston removal

Liner calibration

Pump vibration reasons

Electrical-

Types of transformer

Explain starters

Where used each

How will you order a cable (specs)

Synchronous and induction motor diff

Preferential trip how to test

On your Gas tanker which type of level gauge sensor was there in tank (radar indirect type)

Decider-

Survival craft and rescue boat diff

Man overboard actions - immediate first step

Solas ammendments

Overall the viva was good. Meena sir said comparetively you did good, some areas you could have improved.

Result : All clear 📍😊

29/06/2021

Mumbai

Chandarashekar and subba rao

Safety

Type of ship (lpg)

NT GT DWT

Difference between DWT and displacement

Pimsol mark and load line u

Air lock

Motor room safeties

Deck Sprinkler system

BDN regarding 4th engg

Diff between fo tank vent and ballast tank vent

Life boat regulations

Rescue boat and life boat diff

Result - pass

Chandrashekhar Dev manus proved...

Thanks Rohankar and solapurkar sir 😊

29/06/2021

Mumbai

Internal Subbarao

External chndrashekhar

MEP, MOTOR

Type of ship

Main engine, aux engine difrence with specifications

Refrigetaton type in your ship

How refrugerant is absorbing heat from outside

If liquid comes to compressor what will you do to overcom

Refrigereat properties

Scavenge temp of one unit is high

Reasons and your action

Centrifugal pump vibrating reasons

Parts of lathe machine

FWG vaccum not generating reasons

FWG distilled water how we can use in boiler.

Result.. Both pass

Mumbai

29/06/2021

Attempt 2

(Functns 5 & 6)

Internal : R. R. Subbarao

External : V. K. Chandrasekharan

-Which functions?

-What happened to 3 & 4?

Function 5

Ext:

1) Describe the electrical systems on board your last ship.

List all the technical specs.

2) What do you understand if your running generator is showing a gradual drop in frequency ?

3) How will you synchronize a second generator manually?

(Network issue with examiners)

Int:

1) What will you check when overhauling an electric motor?

2) After you've overhauled the motor and fitted it back onto it's respective pump, the pump isn't developing pressure. What could be the reason?

Fucntion 6

1) Describe the refrigeration system on board your last ship.

- Describe Cycle of operation

- How does the TxV work?

- What is the effect of air in the system?

- How will you check leakage of refrigerant? (Other than Soap Sol'n)

2) Safeties on the overhead crane

- What is the brake and how does it work?

3) What tests do you do on boiler water?

- Why these tests?

- What is your action if chloride is high?

- What is Boiler Blow down? What kinds of blow down do you have?

- Will you do Bottom Blow Down or Scum Blow Down in case of high chloride ?

4) What are the safeties in your boiler?

- What is flame failure trip?

- Why do we need a flame eye and flame failure trip ?

Vk chand

Subbarao

Coc attempt

4b

Type of engine and ship

Power transmit

Reduction gear ratio

Fuel leak in pump

Constant rpm governor deadband

Camshaft wrt cranshaft rotation in 4s and 2s

Pass 

Mumbai

External- Vk chandrashekhra sir

Internal- Subbarao

Function 4 & 6

Type of ship sailed.

Engine specifications

How lubrication in main engine (full passage)

Safeties on air compressor.

Safeties on engine room overhead crane.

Function of back pressure valve and full working refer system.

Crank case L.O checks.

Explain steering system.

How temperature is controlled in different rooms in refer system.

Fun 4 pass

Fun 6 repeat

22 /12/2021

Internal subbraoo

External chandrashekhar

Engine and AE specifications MINE OFFSHORE SUPPLY VESSEL

Engine connection to propeller connection full

Shaft generator gear ratio

Cpp working

How cpp is working in emergency when servo motor is not working

FiFi how coupled ,type of coupling

Difference between constant pressure turbocharger and pulse type

Lub oil circulation of 4s engine

And rest forget

Result pass,   and COC thanks to all especially saheem bhai

Ext chandhrashekran

Safety

Plimsole mark (he want to hear letters on line In central circle)

Multigas detector

Solas training manual

Pyrotechnique and numbers

And some more

Mmd MUMBAI

23/12/2021

Int :- meena sir

Ext :- chandrashekhar sir

what type of ship

Centrifugal pump overhauling, parts, purpose of key on shaft?

Purifier and clarifier

Propulsion system - azimuth propeller

Duplex filter change over when engine is running?

pass 

23-12-2021

Mumbai

Chandrashekhar sir

Function 5 electrical

Battery room checks prior entry

Difference between 50hz and 60hz and what will happen if we use 50hz instead of 60hz onboard

Types of battery charging

Trickle charging

After entering battery room what checks you will do

What you will check in the electrolyte

Battery room safeties

Emergency generator supplied to which load

Electrical pass 

Mmd MUMBAI

23/12/2021

Int :- meena sir

Ext :- chandrashekhar sir

Safety

what type of ship

Pump room safeties

Deadweight, light displacement, load displacement

Purifier room fire. What are your actions

Explain hypermist system

Rescue boat regulations

Electrical

Explain about electrical power supply on your ship

How to take parallel generator

Generator voltage fluctuating reasons

AVR working

Working principle of generator, Flemings right hand n left hand rule

What is Power factor

What is apparent power and real power

KW formula

What is Static electricity. Examples

What is intrinsically safe

Result:

electrical pass

Safety repeat

Int- subbarao

Ext- vk Chandrashekar

Safety

1- grt nrt dead weight

2- air lock in lpg carrier

3- emergency shut down

4- tank conditions

5- life boat and life raft

COC ❤️

Tq saheem bhai and everyone for your help

Date 30/12/21

Mumbai

External: VK chandrashekar

Internal: Subarrao

Function 3

About ship details in brief

- 1. Plimsol marking**
- 2. Deck line to plimsoll marking- told freeboard.**
- 3. Difference between tank vents of bunker and ballast tank. ..what to hear flame arrestor.**
- 4. Enclosed space entry, gases, limits**
- 5. Dcp fire portable extinguisher**
- 6. Handle of chemicals....MSDS.**

Coc

Thanks a lot Saheem bhai and all others for the help... 😊

Thanks a lot bro...keep the good work forward also 😊

30/12/2021

Mumbai

External: VK chandrasekaran

Internal: Subarrao

Function 4b

- 1. Which function apply for**
- 2. Type of ship**
- 3. Engine specifications**
- 4. What is critical speed**

5. Turbocharger surging

6. How piston transfer motion to flywheel

Function 6

1. Boiler mounting

2. COPT

3. Machineries in workshop

4. Lathe machine parts

30/12/2021

Int:- Subrao sir

Ext:- V K Chandrashekran sir

MEP

Ship type

Refrigeration system components & working of system

How temp maintained

Overhead crane safeties

Electromagnetic fail safe brake working

Fwg principle

How vacuum generated: ejector

Principle of ejector:- Venturi effect, Bernoulli

Thankyou very much bro.. 😄😄😄

Mumbai mmd

Internal: subba rao

External: chandrashekar

1. Power distribution on your ship

2. How frequency depends, and how it causes. What does 60hz frequency refer to.

3. Generator is running and producing voltage but it's frequency gets decreasing reason

4. What is intrinsic equipment and where it is used.

4. Why flame proof lamp used in battery room

5. How hydrogen gas is liberated in battery room.

6. check made on battery

7. How to measure specific gravity and it's value.

8. Ingress protection.

Where all u find on deck

9. Msb safeties

10. Reverse power trip

11. Earth fault and how do u measure.

12. Paralleling of generator without synchroscope

14. alternator producing voltage but not rated voltage reasons

15. How to improve the specific gravity in battery.

And electrolyte used.

16. Insulation classes and class F value

17. Steering gear safety.

Internal: how do u identify 440 v earth fault

Cleared

COC 

Thankyou all.

30-12-2021

Mumbai

Int : subarao sir

Ext : chandrashekar sir

MOTOR

1.type of ship

2.talk about ME & AE

3.sulzer engine speciality (wecs&qty liston&common rail&servo oil& servo oil pump& ect drivn pump) (basic only)

4.tappet clearence

5.precautions of starting gen after long time, after decarb.

6.engine not turn on fuel reasons. (He need fuel pump timing related)

MEP

1.refrigeration cycle explain.

2.why hp cut out.

3.air compreser safety

4.bumping clearence

5.bursting disc in comp.

6.pressure at each stage suc and disch.

6.boiler safeties

7.flame failure trip importance.

8.purifier not picking speed

9.frictional clutch no spare

Result : PASS

Ext:V K chandrasekhar sir

Int : sunna rao sir

MEP

Type of ship

1 Refrigeration system working & parts

2 Txv working

3 reff LO property

4 steering motor safety

5 Different b/w safety v/v and relief v/v

What is blow down ring

7 boiler safety

8 flame failure why

Pass ❤️

Thank you everyone

Thanks @FSI Paresh PDI

Date- 30/12/2021

Int- Subbarao Sir

Ext- Chandrashekaran Sir

Fn 3- COSCPOOL

- Explain your ship
- What is Air lock n its location
- Procedure for hotwork outside designated space
- Enclosed space entry procedure (what all things to be checked) XXque
- Gases to be checked n their values
- Solas requirement for enclosed space drills
- how to calibrate gas detector (by span gas)
- Lifeboat engine Solas requirement

_Name 7-8 Certificates carried onboard

Result- COC

Thankyou Sunil Sir, Onkar Sir,

Ashish Sir, Prathamesh sir n entire HATC team for creating such a platform

Date - 30/12/2021

Ext- V K Chandrashekar Sir

Int- Subbarao Sir

Fn 3

- Explain your ship
- Air lock system n where is it used
- Procedure to carryout hotwork outside designated space
- Enclosed space entry procedure
- Limits of gases allowed in enclosed space
- Lifeboat engine requirements
- Certificates Carried onboard
- Solas regulation for enclosed space drill
- Procedure fo calibrating gas detector

Result- C 😊 C

Thanks to HATC team; Saheem bhai n all friends for your support in groups

Thank you Abhishek bhai for sending the link 😊

30/12/2021

Mumbai MMD

Int: Subbarao

Extrnl: VK Chandrashekar

(Both are good ❤️ ❤️)

Function 6 MEP

- 1.Types of Ship.
- 2.Tell me the perticulars of Boiler of your Ship.
- 3.Type of cargo pumping system - COPT
- 4.Boiler water tests

5. pH of boiler water

6. From where Sea water can enter your boiler water system? (I told about SW cooled Vacuum condenser)

7. Boiler Blow down procedure (which valve to open first)

8. How do you release the air trapped in Refrigeration system?

9. What is NPSH?

10. Cavitation and its effect?

Result: ❤️❤️COC❤️❤️

Thank you Jacob sir 🙏

Thank you Saheem bhai and all my friends ❤️❤️