

ON BOARD TRAINING RECORD BOOK

FOR

OFFICERS IN CHARGE OF AN
ENGINEERING WATCH (ENGINE CADETS)

Based on the competence
requirements of the 2010
amendments to the
IMO STCW Convention

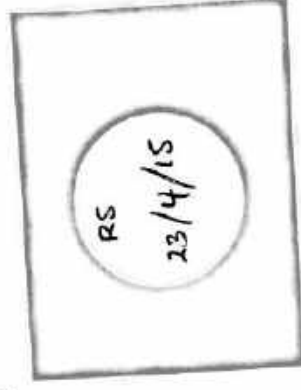


International Shipping Federation

ON BOARD TRAINING RECORD BOOK

FOR
OFFICERS IN CHARGE OF AN ENGINEERING WATCH (ENGINE CADETS)

Based on the competence requirements of the 2010 amendments to the IMO STCW Convention



Name SAHADEO RAMA DESAI

Home Address A/P DEGWJE, BAZARWADI

H.NO 247 SAWANTWADI

..... SINDHU PURGA, MAHARASHTRA

..... 416511

Date Training Started 16/8/2014



International Shipping Federation

SECTION 2 SUMMARY RECORD OF PROGRESS

PARTICULARS OF CADET to be completed by the trainee in **BLOCK CAPITALS**



Name in Full **SAHADEO RAMA DESAI**

Seafarer's Book No. **MUM 157352** Date of Birth **1 DECEMBER 1985**

Home Address **A.P. DEGWJE, H.NO.279 BAZARWADI**

SAWANTWADI, SINDHUDURGA - 416511

STATE - MAHARASHTRA, INDIA

Change of Address (if applicable)

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Sponsoring Company **M.T.M SHIPMANAGEMENT PTE.LTD.**

Address **78 SHENTON WAY # 13-01 SINGAPORE 079120**

TEL: 652279888 FAX: 652207988

Cadet Agreement Date Started Date Finished

Change of Sponsoring Company (if applicable)

Address

Date of Change Date Finished

TRAINING PROGRAMME as applicable

COLLEGE PHASES:				
SHIPBUILDING ENGINEERING	From: 1 JUNE 2003	To: MAI 2007		
PRE SEA TRAINING IN MARJNE ENGINEERING	From: 1 SEP 2007	To: 31 AUG 2009		
	From:	To:		
	From:	To:		
SEA PHASES:				
M/V LOUDS ISLAND	From: 16/8/2014	To: 28/2/2015		
	From:	To:		
	From:	To:		
WORKSHOP OR OCCUPATIONAL TRAINING:				
INPLANT TRAINING PHASE-I (BHARTI SHIPYARD)	From: 18 JUL 2005	To: 10 DEC 2005		
INPLANT TRAINING PHASE-II (GOA SHIPYARD)	From: 15 JAN 2007	To: 9 JUNE 2007		
	From:	To:		

RS
23/4/15

BASIC TRAINING as required by Section A-VII/1 paragraph 2 of the STCW Code

As part of your pre-sea training you should have completed Basic Training or instruction as listed. Enter details of this training or instruction below.

	DATE	Location	Document Number
Personal Survival Techniques	1/12/2007	NUSI MARITIME ACADEMY GOA	PST/5500/2007
Fire Prevention and Fire-Fighting	20/11/2007	NUSI MARITIME ACADEMY GOA	PFFF/6065/2007
Elementary First Aid	18/10/2008	NUSI MARITIME ACADEMY GOA	EFA/6170/2008
Personal Safety and Social Responsibilities	15/10/2008	NUSI MARITIME ACADEMY GOA	PSSR/5275/2008

SHIPBOARD RECORD OF SERVICE

Ship	IMO Number	Dates		Time Spent on Engine Room Watchkeeping Functions		Voyage Total - Seagoing Service	
		Sign on	Sign off	Months	Days	Months	Days
MIV LOUDS ISLAND	9305013	16/8/2014	28/2/2015	6 months	12 Days	6 months	12 Days
MIV SHEPPAN ISLAND	9301562	12/10/2013	2/5/2014	6 months	20 Days	6 months	20 Days
Total Service				12 months	32 Days	12 months	2 Days .

RS
 23/4/15

DESIGNATED TRAINING OFFICER'S REVIEW OF TRAINING PROGRESS

This table should be completed at least once a week or at such intervals as the trading of the vessel allows. Comments should only relate to the cadet's practical progress and competence and should NOT refer to character.

RS
23/4/15

Ship	Comments	Signature	Date
M/V LOUDS ISLAND	Engine Room watchkeeping duties perform satisfactory.	TARASENKO ALEXEY	31/8/2014
M/V LOUDS ISLAND	Various tasks given such as purifier overhaul, sea chest cleaning progress found satisfactory.	TARASENKO ALEXEY	30/9/2014
M/V LOUDS ISLAND	EIR Log book & all Paper work & all companies forms, knowledge found good.	NUWAN SAMARASEKARA	31/10/2014
M/V LOUDS ISLAND	Purifier, M/E fuel injector testing done satisfactory over all progress good.	NUWAN SAMARASEKARA	30/11/2014
M/V LOUDS ISLAND	Bunker plan, calculation & Bunkering operation responsibility taken progress good.	NUWAN SAMARASEKARA	24/12/2014
M/V LOUDS ISLAND	Satisfactory results had been observed	NUWAN SAMARASEKARA	30/1/2015
M/V LOUDS ISLAND	Progress Good	TARASENKO ALEXEY	27/2/2015

CHIEF ENGINEER'S MONTHLY INSPECTION OF RECORD BOOK

Comments should only relate to the cadet's practical progress and competence and should NOT refer to character.

Ship	Comments	Chief Engineer's Name in BLOCK CAPITALS	Chief Engineer's Initials	Date	Ship's Official Stamp
M/V LOUDS ISLAND	Overall progress had been observed satisfactory.	SANDEEP RAWAT	S. Rawat	31/8/2014	M/V LOUDS ISLAND MAJURO Call Sign : V7VP2 Official No. : 4176 GT : 27915 NT : 14045 KW : 21770 IMO NO. : 9305013
M/V LOUDS ISLAND	Various task given finished on time.	SANDEEP RAWAT	S. Rawat	30/9/2014	
M/V LOUDS ISLAND	Program satisfactory.	SANDEEP RAWAT	S. Rawat	31/10/2014	M/V LOUDS ISLAND MAJURO Call Sign : V7VP2 Official No. : 4176 GT : 27915 NT : 14045 KW : 21770 IMO NO. : 9305013
M/V LOUDS ISLAND	Refer more manuals drawings.	SANDEEP RAWAT	S. Rawat	30/11/2014	
M/V LOUDS ISLAND	Progress satisfactory.	SANDEEP RAWAT	S. Rawat	29/12/2014	M/V LOUDS ISLAND MAJURO Call Sign : V7VP2 Official No. : 4176 GT : 27915 NT : 14045 KW : 21770 IMO NO. : 9305013
M/V LOUDS ISLAND	Follow computer based training on various topics	SANDEEP RAWAT	S. Rawat	30/1/2015	
M/V LOUDS ISLAND	Satisfactory Results had been observed	TANKALA NAIDU	T. Naidu	27/2/2015	M/V LOUDS ISLAND MAJURO Call Sign : V7VP2 Official No. : 4176 GT : 27915 NT : 14045 KW : 21770 IMO NO. : 9305013

RS
23/4/15

COMPANY'S INSPECTION OF RECORD BOOK

Comments should only relate to the cadet's practical progress and competence and should NOT refer to character.

Comments	Name in BLOCK CAPITALS	Initials	Date
Overall progress found satisfactory.	PHANEENDRA DASARI	<i>P.Dasari</i>	25/9/2014

RS
 23/4/15

LIST OF PUBLICATIONS, VIDEO OR COMPUTER-BASED TRAINING PROGRAMMES STUDIED/USED

Date	Subject/Title	Officer's Initials
25/8/14	Computer Based training on Enclosed space Entry	S. Rawat
11/9/14	Computer Based training on Hot work	S. Rawat
10/10/14	Computer Based training on Container Fire	S. Rawat
20/10/14	Fire Fighting Basic	S. Rawat
27/10/14	computer Based training on operation of Generators.	S. Rawat
10/11/14	Computer Based training on Auxillary Engine	S. Rawat
17/11/14	Training Films on Personal Safety	S. Rawat
15/12/14	Films on SOPEP	S. Rawat
15/1/15	Training Films on SCBA	Made
11/2/15	Training Films on Piracy	Made
15/2/15	Training Film on Enclosed Space Entry.	Made
25/2/15	Training film on Portable Fire Extinguishers.	Made

RS
23/4/15

SHIPBOARD FAMILIARISATION as required by Regulation I/14 of the STCW Convention

You will be given a period of time during which you will have an opportunity to become acquainted with the equipment you will be using, and specific watchkeeping, safety, environmental and emergency procedures and arrangements required to perform your duties. The location of safety and emergency equipment varies from ship to ship. To be sure that you are familiar with your duties and all ship arrangements, installations, equipment procedures and ship characteristics that are relevant to your routine or emergency duties, you must complete the following tasks or duties as soon as possible on joining your ship.

Ship's Name	MIV LOUDS ISLAND					
Task/Duty	Officer's Initials/Date	Officer's Initials/Date	Officer's Initials/Date	Officer's Initials/Date	Officer's Initials/Date	Officer's Initials/Date
Watchkeeping procedures and arrangements: Have knowledge of engine room (ER) and other work areas	De 18/8/14					
Have knowledge of main and auxiliary engines and other engine room equipment and displays	De 18/8/14					
Operate, under supervision, equipment, plant and machinery to be used in routine duties	De 18/8/14					
Safety and emergency procedures: Read and demonstrate an understanding of your Company's Fire and Safety Regulations	De 18/8/14					
Demonstrate recognition of the engine room and general alarm signals for: FIRE EMERGENCY ABANDON SHIP ENGINE ROOM CO₂ RELEASE	De 19/8/14					
Locate engine room first aid equipment	De 19/8/14					
Locate Emergency Escape Breathing Devices (EEBDs) for machinery space and accommodation	De 20/8/14					
Locate fire-fighting equipment: alarm activating points, alarm bells, extinguishers, hydrants, breathing apparatus, fire-fighter's outfits and hoses	De 20/8/14					
Locate rocket line throwing apparatus	De 20/8/14					
Locate distress rockets, flares and other pyrotechnics	De 21/8/14					
Locate EPIRB, SART and portable radios for use in emergency	De 21/8/14					
Locate CO ₂ bottle room, and release points and control valves for machinery spaces, engine room, pump rooms, cargo tanks and holds	De 22/8/14					

SHIPBOARD FAMILIARISATION as required by Regulation I/14 of the STCW Convention (continued)

Ship's Name	MV LOUDS ISLAND			
Task/Duty	Officer's Initials/Date	Officer's Initials/Date	Officer's Initials/Date	Officer's Initials/Date
Safety and emergency procedures (continued): Locate and understand the operation of the emergency deck stops for main engines, fire flaps, ventilation, fuel oil valve and other emergency stop valves	<i>[Signature]</i> 23/8/14			
Locate and understand the operation of the emergency fire pump, emergency generator and emergency compressor	<i>[Signature]</i> 24/8/14			
Environmental protection: Get acquainted with: The procedure for handling garbage, rubbish and other wastes Handling of oily bilge water and oil wastes	<i>[Signature]</i> 24/8/14			
	<i>[Signature]</i> 25/8/14			

BOAT AND MUSTER STATIONS

Insert Boat and Fire Muster Stations and other details in the appropriate space. Ask the master to sign in the space provided.

Ship's Name	MV LOUDS ISLAND				
Boat Muster Station	STBD SIDE BOAT DECK.				
Fire Muster Station	PORT SIDE POOP DECK.				
Master's Name BLOCK CAPITALS	OLEG ABRAMOV				
Master's Signature	<i>[Signature]</i>				
Date	27/2/15				

SECTION 4 PARTICULARS OF SHIPS

It is an essential feature of your training that you obtain knowledge of the ships on which you serve. To assist you in meeting this important requirement the following particulars are to be recorded during the time spent on each ship. Questions on this subject, with particular reference to your last ship, are likely to be put to you during an oral examination and assessment for your certificate of competency.

FIRST SHIP

m/v/s LOUDS ISLAND	IMO Number 9305013	Call Sign V7VP2
Dimensions and Capacities	Life-Saving Equipment	Steering Gear
Length overall 215.13 m	Lifeboats (no.) Freefall (1) Passengers	Type <i>Hatzlapp / RAL6 - 460</i>
Breadth 29.80 m	Life rafts (no.) <i>5 C. Deutsches Schlauchbootfabrik</i>	Cargo Handling Gear
Depth 16.50 m	Capacity per boat 32 (persons)	Derricks/cranes (no. and SWL) <i>1 / 1.5</i> tonnes
Summer draft 11.55 m	Capacity per life raft <i>4 x 95 / 1 x 6</i> (persons)	Winches (types) <i>Electric / 1.5</i> tonnes
Summer freeboard 4.99 m	Survival Suits (no./type) <i>3 B. I. V. i. King</i>	Other cargo equipment
Gross tonnage 27915 t	Emergency Escape Breathing Devices (EEBDs) (no./type) <i>18 / SABRE EL SA EEBD</i>	Ballast tanks (no.) <i>19 C.I.I. 3.1.5. 3.m.3.</i>
Deadweight 38103 t	Fire-Fighting Equipment	Cargo tanks (no.)
Light displacement 11028 t	Fire extinguishers (no. and capacity)	Cargo pumps (no.)
Grain/liquid capacity m ³	Types: Water litres Foam <i>2/20</i> litres	Pipelines (sizes)
Main Engines	Dry powder <i>42/6</i> kg CO ₂ <i>9/5</i> kg	(type and rating)
Engine (make/type) <i>MAN B&W - 7L70.M.C.-C</i>	Fire hoses (no. and size) <i>30 / 52</i> mm	Anchors
Stroke <i>2.360.m.m.</i> Bore <i>700.m.m.</i>	Breathing apparatus (make) <i>Unitor</i>	Port weight <i>1.5</i> tonnes
Output <i>2170</i> bhp/kW @ <i>108</i> rpm	ER fixed fire-fighting system (type) <i>C.O.2. System</i>	Starboard weight <i>1.5</i> tonnes
Turbo charger <i>MAN B&W</i>	Other fixed fire-fighting system(s) (type) <i>Water sprinkler</i>	Spare weight
Reduction gears type	Auxiliaries	Cable (diameter) <i>2.85</i> mm
Type of waste heat recovery	Generators (type/make) <i>Caterpillar MAK 6.M.2.5</i>	Length <i>1.2 x 2.7.5</i> shackles
Engine fuel type <i>HFO 380</i> Cons <i>7.5</i> t/d	Output <i>1720 kW</i>	Windlass (make/type) <i>Machinefabrik Birkhoff</i>
Viscosity <i>350</i> cSt at <i>50°C</i>	Fuel type <i>HFO MGO</i> Cons <i>5</i> t/d	Electric
Auxiliary boilers (type and no.) <i>Water tube boiler</i>	Purifiers (type/make/capacity)	
Make <i>SACKE</i>	LO 5835 / AIFALMHO 5835 / ALFAMIDO P.600 / ALFAMAL	
Working pressure <i>0.70 MPa / 1800 kg/bx.kg/m² or bar</i>	5000 l/hr 18000 l/h / hr 800 l/hr	

SECTION 5 SAFETY AT WORK

Ships and ships' engine rooms can be dangerous places in which to work. Taking proper precautions will minimise the risks. Whilst the master is responsible for the overall safety of the ship and those on board, individual crew members have a duty to ensure safety in those matters within their own control. All the safeguards and other facilities provided for your safety should be used.

In all engine room tasks there is a safe way and an unsafe way to proceed. Give plenty of thought to what you are doing, keep your eyes and ears open and aim to be a safe engineer. Don't take risks. Follow the correct procedures. Wear suitable clothing and protective footwear, and always use the personal protective equipment provided, for example hard hat, hearing protection, goggles, gloves etc.

Ref No	Training	Criteria for Evaluation		Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)
		Operations, maintenance and repairs are planned and carried out in accordance with safety rules and procedures	Task Completed Supervising Officer/Instructor (Initials/Date)	
	Competence: Maintain safe operations			<i>staff</i> 31/8/14
	Application of safe working practices on board			
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.1	Describe the system of permits to work on board	<i>De</i> 20/8/14	FOLLOW ALL THE CORRECT	<i>De</i> 25/8/14
.2	List the items to be checked in a work permit	<i>De</i> 20/8/14	PROCEDURE BEFORE ENTERING	<i>De</i> 25/8/14
.3	List the items to be checked in a hot work permit	<i>De</i> 20/8/14	INTO ENCLOSED SPACE.	<i>De</i> 25/8/14
.4	Describe an enclosed space	<i>De</i> 20/8/14	GET TO KNOW THE ROLE OF	<i>De</i> 25/8/14
.5	Describe the procedures to enter an enclosed space	<i>De</i> 20/8/14	RESPONSIBLE OFFICER.	<i>De</i> 25/8/14
.6	Explain the use of gas analysis instruments to be used prior to entering: Fuel oil tanks	<i>De</i> 22/9/14	GET FAMILIARISE WITH THE	<i>De</i> 26/8/14
.7	Ballast tanks	<i>De</i> 22/8/14	COMPANIES FORMAT FOR WORK	<i>De</i> 26/8/14
.8	Void spaces	<i>De</i> 22/8/14	PERMIT.	<i>De</i> 26/8/14

.9	Describe the procedure adopted on finding someone overcome as a result of: Electric shock	<i>[Signature]</i>	23/8/14	CHECK THE SEAGULL VIDEO TRAINING AVAILABLE ONBOARD, FOR ENCLOSED SPACE ENTRY.	<i>[Signature]</i>	28/8/14
.10	Gassing incident in an enclosed space	<i>[Signature]</i>	23/8/14		<i>[Signature]</i>	28/8/14
.11	Describe special safety precautions in dry dock	<i>[Signature]</i>	24/8/14		<i>[Signature]</i>	28/8/14
.12	Demonstrate an understanding of safe working practices for use of welding and cutting equipment	<i>[Signature]</i>	24/8/14		<i>[Signature]</i>	30/8/14

SECTION 7 TASKS FOR OFFICERS IN CHARGE OF AN ENGINEERING WATCH

FUNCTION: MARINE ENGINEERING AT THE OPERATIONAL LEVEL

Ref No	Training	Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)
1	Competence: Maintain a safe engineering watch	The duties are carried out in accordance with accepted principles, procedures and ship specific instructions. Communication is clearly and unambiguously given and received	S Paul 15/9/2014
1.1	Relieve and hand over the watch		
	Task/Duty	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.1	Follow the correct procedure for handing over a watch: At sea	WATCH HANDING OVER FORM OF COMPANY FORMAT FOLLO CORRECTLY. WHAT ENTRIES NEED TO MAKE IN LOG BOOK NEED TO BE LOOKED PROPERLY.	JW 10/9/14
.2	In port		JW 10/9/14
.3	Follow the correct procedures for taking over and accepting a watch: At sea		JW 11/9/14
.4	In port		JW 11/9/14
1.2	Conduct the watch	The frequency and extent of monitoring machinery, equipment and systems conform to manufacturers' recommendations and accepted principles and procedures and are sufficient to deal with common operational errors and fault conditions. Questionable decisions and/or actions result in appropriate challenge and response	S Paul 15/9/2014
.1	Assist with the duties of an engineer officer on: Seagoing watches	ALL ALARMS AND PARAMETERS NEED TO BE EVALUATE AND UNDERSTAND CORRECTLY.	JW 12/9/14
.2	Port watches		JW 12/9/14
.3	Anchor watches		JW 14/9/14
.4	Under supervision, carry out all routine watchkeeping duties, checking the correct functioning of all automatic control and monitoring systems		JW 14/9/14

.5	Make adjustments as found necessary	22/8/14	14/9/14	ACCEPTANCE OF ALARM THEN TAKING CORRECTIVE ACTION NEED TO BE DONE PROPERLY.	14/9/14	
.6	Perform routine checks in machinery space for correct water levels	22/8/14	14/9/14		14/9/14	
.7	Blow down main engine scavenge drains	22/8/14	15/9/14		15/9/14	
.8	Ensure that compressed air automatic drains are functioning correctly	23/8/14	15/9/14		15/9/14	
.9	Check sheathing on high-pressure fuel pipes	23/8/14	15/9/14		15/9/14	
.10	Clean air side of the turbo charger	24/8/14	15/9/14		15/9/14	
.11	Carry out boiler water tests and corrective treatment	24/8/14	15/9/14		15/9/14	
.12	Check returns from heating coils and other possible sources of contaminated feedwater	25/8/14	15/9/14		15/9/14	
.13	Check the correct operation of the boiler including water level and burner	25/8/14	15/9/14		15/9/14	
.14	Carry out a soot-blowing procedure	24/8/14	15/9/14		15/9/14	
.15	Check all air receiver drains	24/8/14	15/9/14		15/9/14	
.16	Assist on the bridge during manoeuvring operations: Entering port	26/8/14	15/9/14		15/9/14	
.17	Leaving port	27/8/14	15/9/14		15/9/14	
.18	Understand that effective watchkeeping involves managing watch duties, including supervision, as well as maintaining the safe operation of propulsion plant and other machinery	27/8/14	15/9/14		15/9/14	
(18)	Response to black-out and emergency situations				Immediate actions are executed in accordance with laid down procedures, and due regard paid to the actual situation. Effective leadership behaviours are demonstrated	30/9/14
.1	Take corrective action during emergency drills: Fire drill	28/8/14	15/9/14		DESIGNATED DUTIES IN FIRE DRILL ABANDON SHIP DRILL SHOULD BE KNOWN CORRECTLY.	15/9/14
.2	Abandon ship drill	28/8/14	15/9/14		15/9/14	
.3	Black out drill	29/8/14	15/9/14		15/9/14	

Ref No	Training	Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
1	Competence: Maintain a safe engineering watch	Immediate actions are executed in accordance with laid down procedures, and due regard paid to the actual situation. Effective leadership behaviours are demonstrated	S. Paul 30/9/14	
1.5	Response to black-out and emergency situations (continued)			
	Task/Duty	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
4	Assist with/demonstrate use of main engine local control and emergency manoeuvring	GET FAMILIARISE WITH ALL THE KEY ALARMS ON THE CONTROL PANEL AND STARTING AND STOPPING OF MACHINERY FROM REMOTE	JW 17/9/14	
5	Assist with/demonstrate procedure for returning main engine to normal running		JW 17/9/14	
6	Demonstrate in a drill, emergency running and manoeuvring procedures		JW 17/9/14	
7	Demonstrate knowledge of emergency steering gear operation		JW 19/9/14	
8	Demonstrate a knowledge of how to reset machinery following failure and how to restart plant		JW 19/9/14	
9	State the priorities for restoring services		JW 19/9/14	
10	Demonstrate knowledge of first start arrangements		JW 19/9/14	
1.4	Change-over of remote-automatic and local control systems		The operations are decisively carried out and in accordance with procedures stated. Questionable decisions and/or actions result in appropriate challenge and response	S. Paul 30/9/14
1	Change over to the stand by system for: Main engines		GET EXCAT KNOWLEDGE OF WHICH MACHINERY TO START FOR STAND BY ENGINE.	JW 11/9/14
2	Generators			JW 11/9/14
3	Main engine system pumps	JW 11/9/14		
4	Steering gear	JW 11/9/14		
5	Prepare for stand by engines	JW 11/9/14		

1.5 Complete the engine room log book and other records		All significant readings, movements and activities related to the engineering systems are properly recorded		Start	30/9/14
.1	Complete the engine room log book and record books	le	3/9/14	le	23/9/14
.2	Record the complete engine movements in the log during periods of manoeuvring	le	3/9/14	le	23/9/14
.3	Evaluate record entries in the Alarm Record Book	le	3/9/14	le	23/9/14
.4	Observe and note performance and condition of machinery using condition monitoring equipment, where appropriate	le	4/9/14	le	23/9/14
.5	Observe and note normal operating temperatures/pressures	le	4/9/14	le	23/9/14
.6	Demonstrate a knowledge of and understand the purpose of the Alarm Record Book	le	4/9/14	le	23/9/14
1.6 Knowledge of engine room resource management principles		Resources are allocated and assigned as needed in correct priority to perform necessary tasks		Start	30/9/14
.1	Set realistic plans for allocation and use of engine room resources	le	20/8/14	le	15/9/14
.2	Plan tasks to achieve timely outcome	le	20/8/14	le	15/9/14
.3	Understand that to achieve a goal or an objective the plan must be specific with sufficient detail	le	20/8/14	le	16/9/14
.4	Demonstrate collection and interpretation of management data to assess task progress	le	25/8/14	le	16/9/14
.5	Lead progress review with team members to ensure task is attainable within the plan set	le	25/8/14	le	16/9/14
.6	Lead task review on completion giving credit where due and noting areas where things may be done differently on another occasion	le	25/8/14	le	17/9/14

E/R LOG BOOK ENTRIES SHOULD BE CLEAR ENOUGH NO OVER WRITING IT IS A LEGAL BOOK.

UNDERSTAND THE IMPORTANCE OF TOOLBOX MEETING & PROPER JOB PLANNING, TIME MANAGEMENT.

Ref No	Training	Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)
2	Competence: Use English in written and oral form	The publications and manuals relevant to the engineering duties are correctly interpreted	SRL 11/9/2014
2.1	Use English engineering publications, operational manuals and fault finding instructions		
	Task/Duty	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
1	List English language publications or manuals used: - M/E Manuals - - Technical Circulars of the company - Various companies policies and forms.	COMMONLY USED WORDS IN EIR - VHF COMMUNICATION IMPROVE	SL 11/9/14
2	If appropriate, assist with completion of ship's Planned Maintenance System records in English	Communications are clear and understood	SL 11/9/14
2.1	Communicate with others in English language, as appropriate		SL 11/9/14
1	Demonstrate correct use of terms used in the engine room and names of machinery, equipment and tools		SL 28/8/14
2	Give and take orders in English concerning: Routine operations		SL 28/8/14
3	Emergency drills		SL 28/8/14
4	Ensure that others have understood orders correctly		SL 29/8/14
5	Demonstrate an ability to communicate instructions effectively in the English language to a multi-lingual crew		SL 29/8/14

Ref No	Training	Criteria for Evaluation	Competence Demonstrated	
			Designated Training Officer/In Service Assessor (Initials/Date)	Task Completed Supervising Officer/ Instructor (Initials/Date)
3	Competence: Use internal communication systems	Transmission and reception of messages are consistently successful. Communication records are complete, accurate and comply with statutory requirements	Sheet 2/9/14	
3.1	Operation of all internal communication systems on board		Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Demonstrate operation of the ship's internal phone system	PROGRESS FOUND SATISFACTORY	le	31/8/14
.2	Use internal message system to send and receive information or instructions		le	31/8/14
.3	Understand communication is a two-way exchange and demonstrate this in practice: Steering gear to engine room		le	31/8/14
.4	Steering gear to bridge		le	31/2/14
.5	Demonstrate correct station ID procedure when using hand held transceivers (portable radios)		le	1/9/14
.6	Complete records accurately and in a timely way when recording information received by telephone or hand held transceivers (portable radios)		le	1/9/14

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
4	Competence: Operate main and auxiliary machinery and associated control systems					
4.1	Prepare machinery for departure from port			All checks and actions are carried out in accordance with laid down instructions and all auxiliary and control systems are functioning properly. All relevant checks and actions are recorded	S. [Signature]	15/9/2014
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Draw a schematic arrangement of the main engine system, using blocks to indicate the main components	lee	22/8/14	KEEP PROPER COMMUNICATION WITH BRIDGE WHEN STBY ENGINE GIVEN AND DURING 1HR NOTICE IN PORT	lee	15/9/14
.2	Prepare and test the steering gear and telegraphs	lee	22/8/14		lee	15/9/14
.3	Confirm bridge and ER communications	lee	22/8/14		lee	15/9/14
.4	Check starting air compressor and prepare starting air system	lee	24/8/14		lee	15/9/14
.5	Prepare main and auxiliary machinery for port departure	lee	24/8/14		lee	15/9/14
.6	Prepare main and auxiliary machinery for the sea passage	lee	24/8/14		lee	15/9/14
.7	Demonstrate a knowledge of the use of high level and low level sea suction	lee	24/8/14		lee	15/9/14
4.2	Operate main and auxiliary machinery			The machinery is operated in accordance with instructions, procedures and safe working practices. All instruments are monitored, necessary adjustments made and required actions carried out and properly recorded	lee	25/9/2014
.1	Sketch, in diagrammatic form, the main systems as appropriate for the ship: Auxiliary engine	lee	18/8/14	GET FAMILIARISE WITH ALL PIPELINE AND TRACE THE LINES.	lee	20/9/14
.2	Boiler system	lee	18/8/14		lee	20/9/14
.3	Start main engine from local and remote control positions	lee	20/8/14		lee	20/9/14
.4	Carry out post start-up checks of main engine and shafting	lee	20/8/14		lee	20/9/14
.5	Manually operate main compressor and change over to normal automatic running mode	lee	20/8/14		lee	20/9/14

.6	Record pressures and temperatures for normal running, and note system valve settings and positions in normal running mode	lee	20/8/14	ENGINE BARRED SPEED NEED TO BE CHECKED.	lee	22/9/14									
.7	Respond to instructions from the bridge and operate the main engine controls during periods of manoeuvring	lee	20/8/14		PROPER CUT IN OFF BLOWER OPERATION.	lee	22/9/14								
.8	Water wash exhaust side main engine turbocharger	lee	21/8/14			WHEN ENGINE CONTROL GIVEN TO BRIDGE AND ENGINE TRIED OUT CHECK FOR THE LOAD INDICATOR PANEL.	lee	24/9/14							
.9	Change local/manual control of machinery and systems to remote/automatic control as appropriate	lee	21/8/14				BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.	lee	25/9/14						
.10	Adjust main engine and auxiliary machinery for continuous running	lee	21/8/14					BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.	lee	25/9/14					
.11	Report abnormal conditions, making a record of same and note corrective action required	lee	22/8/14						BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.	lee	25/9/14				
.12	Prepare for running and operate an evaporator/fresh water generator	lee	20/8/14							BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.	lee	25/9/14			
.13	Apply tests and conditioning for purity and potability of fresh water	lee	20/8/14								BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.	lee	25/9/14		
.14	Check crankcase oil mist detector and demonstrate action to be taken in case of an alarm	lee	22/8/14									BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.	lee	25/9/14	
.15	Check governors	lee	22/8/14										BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.	lee	25/9/14
.16	Take power diagram or readings and calculate mean effective pressure and indicated power	lee	25/8/14											BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.	lee
.17	Carry out routine tests on: Engine cooling water	lee	25/8/14	BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.											lee
.18	Fuel oil	lee	25/8/14		BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.										lee
.19	Lube oil	lee	25/8/14			BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.									lee
.20	Assist with shutting down main engine and auxiliary systems after finishing with engines	lee	29/8/14				BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.								lee
.21	Fill a boiler and raise steam from cold	lee	30/8/14					BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.							lee
.22	Raise the temperature of main engine fuel oil from cold to the correct level	lee	30/8/14						BOTLER WATER TEST SHOULD CARRY OUT EVERY WEEK.						lee

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)		
4	Competence: Operate main and auxiliary machinery and associated control systems			The machinery is operated in accordance with instructions, procedures and safe working practices. All instruments are monitored, necessary adjustments made and required actions carried out and properly recorded	S. [Signature] 5/10/2014		
4.2	Operate main and auxiliary machinery (continued)						
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)		
.23	Admit steam to a line or system, taking all precautions against thermal and pressure shock and avoiding water hammer	lu	5/9/14	CARE NEED TO BE TAKEN WHILE OPENING STEAM VALVES.	lu	1/10/14	
.24	Check the security of steam pipes and any expansion pieces	lu	5/9/14		lu	1/11/14	
.25	Check that steam traps and drains are functioning	lu	5/9/14		lu	1/11/14	
.26	Close down a steam line, observing procedure for draining	lu	6/9/14		lu	1/11/14	
.27	Check quality of combustion, noting: Smoke from the funnel Clarity around the flame Flame shape, size and colour Excess air, CO ₂ /CO reading Carbon and unburnt fuel deposits	lu	8/9/14		lu	1/10/14	
.28	Check returns from heating coils and other possible sources of contaminated feedwater	lu	8/9/14		lu	1/11/14	
.29	Check the correct functioning of all boiler condition indicators and alarms	lu	8/9/14		lu	1/10/14	
.30	Check that correct boiler water level is maintained	lu	8/9/14		CHECKED BOILER WATER LEVEL.	lu	2/10/14
.31	Demonstrate the correct procedure for blowing down a boiler gauge glass	lu	8/9/14		lu	2/10/14	
.32	Explain the effect of varying the temperature of circulating water	lu	10/9/14		lu	2/10/14	
.33	Start up and operate ship's refrigeration plant	lu	10/9/14	lu	2/10/14		

.34	Make up brine, if appropriate	lc	1119114	lc	5110114
.35	Check density of the brine	lc	1119114	lc	5110114
.36	Shut down and secure refrigeration/AC plant	lc	1119114	lc	5110114
.37	Carry out refrigerant charging procedure	lc	1219114	lc	5110114
.38	Carry out leak detection for refrigerant gases	lc	1219114	lc	5110114
.39	Replenish driers and filters	lc	1219114	lc	5110114
.40	Check pressure tank safety devices	lc	1519114	lc	5110114
.41	Put sewage system on line and check correct operation	lc	1519114	lc	5110114
.42	Operate waste handling equipment: Incinerator	lc	1519114	lc	5110114
.43	Shredder/compactor	lc	1519114	lc	5110114
.44	Other (state) (Vacuum) System for bilge pumping	lc	1519114	lc	5110114

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
5	Competence: Operate fuel, lubrication, ballast and other pumping systems and associated control systems					
5.1	Plan the operations of auxiliary and piping systems and service plants			Operations are planned and all equipment and control systems checked before operations are executed	S. Paul	7/10/14
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Sketch a line diagram of the oily water separator (OWS) system	lu	18/8/14	ALL ZOPP TANKS IN THE EIR SHOULD BE KNOWN CORRECTLY. OWS 15PPM ALARM TEST NEED TO BE DONE CORRECTLY. ORB ENTERIES FAMILIARIZATION SHOULD BE DONE.	lu	20/9/14
.2	Sketch a line diagram of the ballast water system	lu	18/8/14		lu	20/9/14
.3	Sketch a line diagram of the engine room bilge water system	lu	19/8/14		lu	20/9/14
.4	Sketch a line diagram of the hold bilge water system	lu	19/8/14		lu	20/9/14
.5	Assist with the operation of the OWS	lu	20/8/14		lu	22/9/14
.6	Demonstrate a knowledge of making correct entries in the Oil Record Book	lu	20/8/14		lu	22/9/14
.7	Assist with planning ballast water management operations	lu	21/8/14		lu	22/9/14
.8	Plan and line-up: Ballast water pump	lu	21/8/14		lu	23/9/14
.9	Bilge pump	lu	21/8/14		lu	23/9/14
.10	Demonstrate a knowledge of the bilge pump	lu	22/8/14		lu	23/9/14
.11	Sketch a line diagram of the fuel oil bunker system	lu	25/8/14		lu	25/9/14
.12	Assist with planning for: Receiving bunkers	lu	25/8/14		lu	25/9/14
.13	Transfer of fuel from bunker tanks to service tanks	lu	25/8/14		lu	25/9/14

5.2	Operate the systems for fuel oil, lube oil, ballast, bilge, MARPOL equipment and cargo pumping			The operations are carried out in accordance with rules and procedures to ensure safety of operations and avoid pollution of the marine environment	lu	7/10/14	
.1	Under supervision, transfer fuel from bunkers to service tanks, observing all safety, ship stability and pollution prevention requirements	lu	26/8/14	NEW BUNKERS TO BE USED ONLY AFTER THE ANALYSIS REPORT RECEIVED.	lu	15/9/14	
.2	Drain water/sludge from settling tanks	lu	26/8/14		lu	15/9/14	
.3	Start, operate and monitor fuel oil purifiers	lu	30/8/14		lu	16/9/14	
.4	Demonstrate a knowledge of Sulphur Emissions Control Areas	lu	30/8/14		lu	16/9/14	
.5	Assist an officer with change over from heavy fuel oil to low viscosity fuel oil and vice versa, where applicable	lu	30/8/14		lu	18/9/14	
.6	Start, operate and monitor lube oil purifiers	lu	1/9/14		lu	18/9/14	
.7	Perform routine checks and top ups to maintain lube oil system tanks at the correct levels	lu	1/9/14		lu	20/9/14	
.8	Assist with loading and discharging cargo tanks, including stripping procedures	lu	5/9/14		lu	7/10/14	
.9	Set up and use an OWS in compliance with MARPOL	lu	5/9/14		lu	7/10/14	
.10	Operate an oil discharge monitor in compliance with MARPOL (oil tankers)	lu	5/9/14		lu	7/10/14	
.11	Use bilge holding tanks	lu	6/9/14		lu	7/10/14	
.12	Observe all pollution prevention requirements	lu	7/9/14		lu	7/10/14	
.13	Open up OWS units, clean all parts and reassemble	lu	15/9/14		lu	7/10/14	
.14	Observing all safety, ship stability and pollution prevention requirements, assist an officer with: Ballasting	lu	19/9/14		BALLASTING BE-BALLASTING OPERATION TO BE DONE WITH CO-OPERATION AND CO-ORDINATION C/O.	lu	5/10/14
.15	Deballasting	lu	22/9/14			lu	5/10/14
.16	Pump out hold bilges ensuring that all pollution prevention regulations and requirements are observed	lu	25/9/14			lu	5/10/14
.17	Demonstrate the emergency arrangements for emptying engine room bilges in the event of flooding	lu	28/9/14			lu	5/10/14

FUNCTION: ELECTRICAL, ELECTRONIC AND CONTROL ENGINEERING AT THE OPERATIONAL LEVEL

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
6.	Competence: Operate electrical, electronic and control systems					
6.1	Basic configuration and operating principles of electrical equipment: Locate and use relevant manuals, drawings, diagrams and instructions for electrical equipment and distribution systems			<i>The instructions and manuals relevant for safe and efficient operations are quickly identified and properly used. Electrical systems can be understood and explained with drawings/instructions</i>	S Paul	31/10/14
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Explain the difference between a system diagram, a circuit diagram and a wiring diagram	MP	14/10/14		MP	28/10/14
.2	Demonstrate an ability to use ship's diagrams to identify: Main circuit breakers Emergency switchboard connections Trips (over current, reverse power, low frequency) Transformers Fuses Supply voltages Shore connections Loads to each piece of equipment The types of motors and motor starters	MP	14/10/14		MP	28/10/14
.3	Demonstrate a knowledge of symbols commonly used on circuit diagrams	MP	14/10/14		MP	29/10/14
.4	Demonstrate a knowledge of the location of major control and protection devices within the distribution network	MP	15/10/14		MP	29/10/14
.5	Demonstrate a knowledge of which electrical loads are classed as essential or non-essential, and how essential services are supplied	MP	15/10/14		MP	29/10/14
.6	Locate shore power connection and state the procedures for connection/disconnection	MP	15/10/14		MP	29/10/14
6.2	Prepare and start alternators or generators				<i>The operations are planned and carried out in accordance with operating manuals, established rules and procedures to ensure safety of operations</i>	S Paul
.1	Assist with pre start-up checks and tests on electrical equipment and control systems	MP	18/10/14		MP	14/11/14


.2	Prepare for starting in manual and remote modes		18/10/14			14/11/14
.3	Carry out post start-up checks		18/10/14			14/11/14
.4	Check that all controls are functioning correctly		18/10/14			13/11/14
.5	Demonstrate knowledge of trips and how to reset for: Over current		19/10/14			13/11/14
.6	Reverse power		20/10/14			13/11/14
.7	Low frequency		20/10/14			15/11/14
.8	Check exhaust pipes for leakage		20/11/14			15/11/14
.9	Check efficiency of sheathing on high-pressure fuel pipes and associated leak-off indicators		22/11/14			15/11/14
6.3	Parallel and change-over alternators or generators				<i>The operations are planned and carried out in accordance with operating manuals, established rules and procedures to ensure safety of operations</i>	S. Raut
.1	After start-up, run up to speed, use paralleling procedures and put on load, including shaft generators and emergency generators		14/10/14			10/11/14
.2	Adjust the load share of machines running in parallel		14/10/14			10/11/14
.3	Remove the load from a machine running in parallel, stop and shut down		14/10/14			12/11/14
.4	Describe the safety features in the power distribution system which protect alternators in case of a major fault		15/10/14			14/11/14
6.4	Start electric motors including high voltage installations, where appropriate			<i>The operations are planned and carried out in accordance with operating manuals, established rules and procedures to ensure safety of operations</i>	S. Raut	15/11/14
.1	Demonstrate an understanding of the starting methods for electric motors		16/10/14			10/11/14
.2	Start up and operate a high capacity pump		16/10/14			12/11/14
.3	Demonstrate a knowledge of protective switch gear associated with high voltage installations		16/10/14			12/11/14
.4	Demonstrate an understanding of the ship's permit to work system concerning electrical equipment		17/10/14			15/11/14

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
6	Competence: Operate electrical, electronic and control systems					
6.5	Basic configuration and operating principles of electronic equipment: Characteristics of basic electronic circuit elements			<i>The instructions and manuals relevant for safe and efficient operations are quickly identified and properly used. Electronic systems can be understood and explained with drawings/instructions</i>	S Raed	31/11/14
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Sketch and describe a component providing electronic equipment control	SR	25/10/14		SR	20/11/14
.2	Assist with routine checks and tests on electronic equipment	SR	25/10/14		SR	22/11/14
.3	Demonstrate a knowledge of electronic circuit symbols	SR	25/10/14		SR	25/11/14
.4	Demonstrate a knowledge of the characteristics of basic electronic circuit elements	SR	26/10/14		SR	24/11/14
6.6	Flow chart for automatic and control systems			<i>The instructions and manuals relevant for safe and efficient operations are quickly identified and properly used. Electronic systems can be understood and explained with drawings/instructions</i>	S Raed	31/11/14
.1	Demonstrate a knowledge of process signal symbols and terminology commonly used with control system diagrams	SR	11/11/14		SR	23/11/14
.2	Sketch a part of the ship's electrical distribution system that uses sequential control circuits	SR	1/11/14		SR	23/11/14
.3	List other items of equipment that use sequential control circuits	SR	1/11/14		SR	22/11/14
.4	Demonstrate a knowledge of flowcharts for automatic and control systems for electronic equipment operation	SR	2/11/14		SR	25/11/14
.5	Assist with routine checks and tests on electronic equipment control systems	SR	2/11/14		SR	25/11/14



























6.7	Functions, characteristics and features of control systems for machinery			<i>The instructions and manuals relevant for safe and efficient operations are quickly identified and properly used. Electronic systems can be understood and explained with drawings/instructions</i>	S Rauf	30/11/14
.1	Sketch and describe a system of electronic control		15/10/14			20/11/14
.2	Demonstrate a knowledge of the functions, characteristics and features of the control system for: Main propulsion engine		18/10/14			24/11/14
.3	Steam boiler		18/10/14			24/11/14
.4	Steering gear		20/10/14			25/11/14
6.8	Basic configuration and operating principles of electrical and electronic control systems: Automatic control methodologies and characteristics			<i>The instructions and manuals relevant for safe and efficient operations are quickly identified and properly used. Electronic systems can be understood and explained with drawings/instructions</i>	S Rauf	31/11/14
.1	Explain the term 'high gain' in a control system		20/10/14			20/11/14
.2	Explain how instability in a control system can occur		22/10/14			20/11/14
.3	Sketch a diagrammatic arrangement of an automatic control system you have worked on showing the control elements		25/10/14			22/11/14
.4	Give examples of Proportional-Integral-Derivative (PID) controllers that may be adjusted to achieve improved results/stability		25/10/14			22/11/14
.5	List tuning methods commonly used on board		26/10/14			25/11/14
.6	List software applications used in PID loop tuning		26/10/14			25/11/14
.7	Explain the fundamental difference in control system for heating, ventilation and air conditioning systems		26/10/14			25/11/14
.8	Give an example of a system where 'droop' has to be controlled		28/10/14			26/11/14
.9	Describe the function of a PLC-based controller, identifying pre-set and adjustable parameters		28/10/14			26/11/14

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
6	Competence: Operate electrical, electronic and control systems					
6.9	Proportional-Integral-Derivative (PID) control characteristics			The instructions and manuals relevant for safe and efficient operations are quickly identified and properly used. Electronic systems can be understood and explained with drawings/instructions	S Rawat	28/11/14
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Explain the basic principle of three term control	M	20/10/14		M	29/11/14
.2	Demonstrate a knowledge of PID control characteristics and associated system devices for process control	M	24/10/14		M	25/11/14

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
7	Competence: Maintenance and repair of electrical and electronic equipment					
7.1	Locate and interpret electrical and simple electronic diagrams			Manuals and diagrams are quickly located and those selected are the most suitable for the task to be performed	S Rawat	30/11/14
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	List shipboard equipment for which relevant manuals/ diagrams used: 1. Temp. transmitter of exhaust gas M/E..... 2. Differential pressure switches for Air compressor. 3. Temp. transmitter T/C exhaust gas outlet..... 4. Air condition plant PLC..... 5. Sewage plant PLC.....	M	12/10/14		M	25/11/14

72	Knowledge of construction and operation of electrical testing and measuring equipment	The selected measuring instruments and testing equipment are appropriate. Interpretation of results is checked for compliance with stated tolerances		24/12/14
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In the box below list the shipboard plant or equipment on which you have used the following: battery impedance testers, current clamp meters, multimeters, dielectric test sets, high/low voltage detectors and insulation testers.

	Item Worked On	Measuring Instruments and Test Equipment Used	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Voltage measurement on STE PLANT	Multimeter		15/10/14			22/11/14
.2	Temp. Sensor Exhaust	Multimeter		20/10/14			24/11/14
.3	Voltage of Resistor	Multimeter		22/10/14			25/11/14
.4	Cont'nity of a motor	Multimeter		25/10/14			25/11/14
.5	Resistance	Megger		24/10/14			25/11/14
73	Ensure safety of all personnel working on electrical systems, including the safe isolation of electrical equipment, required before personnel are permitted to work on such equipment			Dismantling, inspecting, repairing and reassembling equipment are in accordance with manuals and good practice. Reassembling and performance testing is in accordance with manuals and good practice		S. Ruff	5/12/14
.1	Isolate and lock out electrical equipment, applying safety measures		12/10/14			27/11/14	
.2	Apply knowledge of safe use of electrical equipment for testing and maintenance in hazardous areas		20/10/14			25/11/14	
.3	Demonstrate an understanding of safe working practices and procedures including use of appropriate clothing for: Use of power operated tools		22/10/14			25/11/14	
.4	Entry into enclosed spaces (tank entry) with electrical equipment		25/10/14			22/11/14	
.5	Work on electrical switchboards		25/10/14			22/11/14	
.6	Use of lifting gear		27/10/14			22/11/14	
.7	Work within refrigeration machinery spaces		27/10/14			24/11/14	
.8	Work on electrical machinery		22/10/14			27/11/14	

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
7.	Competence: Maintenance and repair of electrical and electronic equipment					
7.3	Ensure safety of all personnel working on electrical systems, including the safe isolation of electrical equipment, required before personnel are permitted to work on such equipment (continued)			<i>Dismantling, inspecting, repairing and reassembling equipment are in accordance with manuals and good practice. Reassembling and performance testing is in accordance with manuals and good practice</i>	S Rawat	5/12/14
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.9	Explain the precautions to be taken when testing the insulation of generator cables and wiring connected to an automatic voltage regulator (AVR) unit	M	28/10/14		M	1/12/14
.10	Explain why step down isolating transformers are sometimes used with portable tools and hand lamps	M	21/10/14		M	1/12/14
7.4	Maintenance and repair of electrical system equipment, switchboards, electric motors, generator and DC electrical systems and equipment			<i>Dismantling, inspecting, repairing and reassembling equipment are in accordance with manuals and good practice. Reassembling and performance testing is in accordance with manuals and good practice</i>	S Rawat	20/12/14
.1	Interpret accurately the information in a system diagram, a circuit diagram and a wiring diagram	M	20/10/14		M	9/12/14
.2	Assist with routine checks and tests on electronic control systems	M	20/10/14		M	10/12/14
.3	Demonstrate a knowledge of main switchboard and control room console layouts	M	20/10/14		M	15/12/14
.4	Sketch a circuit diagram showing the arrangements for emergency battery charging for the ER alarm system	M	22/10/14		M	15/12/14
.5	Demonstrate a knowledge of the vessel's emergency power requirements	M	22/10/14		M	15/12/14
.6	Assist with main switchboard routine maintenance of contacts and connections	M	23/10/14		M	19/12/14
.7	Demonstrate a knowledge of the procedure to split the main switchboard	M	23/10/14		M	19/12/14
.8	Demonstrate a knowledge of switchboard instrumentation and safe working practices associated with its maintenance	M	23/10/14		M	19/12/14

.9	Assist with measuring the insulation resistance of a generator		24/10/14			15/12/14
.10	Explain why insulation testing is best conducted while hot, or at working temperature		27/10/14			15/12/14
.11	Carry out insulation tests on a motor using a Megger		25/10/14			16/12/14
.12	Assist in the maintenance of a starter		26/10/14			16/12/14
.13	Sketch a circuit diagram showing the arrangements for battery charging		26/10/14			17/12/14
.14	Carry out routine testing and maintenance on emergency storage batteries		26/10/14			18/12/14
7.5	Detect and repair electrical faults and malfunctions and take measures to prevent damage			<i>Dismantling, inspecting, repairing and reassembling equipment are in accordance with manuals and good practice. Reassembling and performance testing is in accordance with manuals and good practice</i>	S Rawet	29/12/14
.1	Sketch the circuit diagram for the earth indicator lamps on the main switchboard		20/10/14			22/12/14
.2	Carry out Megger testing for insulation resistance and continuity testing		20/10/14			22/12/14
.3	Assist with fault finding on electrical equipment control systems		22/10/14			23/12/14
.4	Assist with tracing earth faults		22/10/14			23/12/14
7.6	Repair faults and correct malfunctions			<i>Dismantling, inspecting, repairing and reassembling equipment are in accordance with manuals and good practice. Reassembling and performance testing is in accordance with manuals and good practice</i>	S Rawet	28/12/14
.1	Assist with maintenance, repair and fault finding on electronic control systems. List items worked on: 1. Danfoss valves 2. Sewage plant PLC 3. Boiler feed p/p PLC 4. Air condition PLC 5. M/E Governor		15/10/14			25/11/14

Ref No	Training	Criteria for Evaluation		Competence Demonstrated		
7.	Competence: Maintenance and repair of electrical and electronic equipment			Designated Training Officer/In Service Assessor (Initials/Date)		
7.5	Repair faults and correct malfunctions (continued)	Dismantling, inspecting, repairing and reassembling equipment are in accordance with manuals and good practice. Reassembling and performance testing is in accordance with manuals and good practice		S Rawel	28/12/14	
	Task/Duty	Task Completed	Supervising Officer/ Instructor (Initials/Date)	Advice on Areas for Improvement	Task Completed	Supervising Officer/ Instructor (Initials/Date)
2	Assist with maintenance, repair and fault finding on AC electrical systems. List items worked on: 1. Continuity test on motor windings. 2. Continuity test on transformer windings. 3. Internal Resistance by megger. 4. IR between Earth and conductors. 5. Cleaning of motor windings with Electrolysis.	NA	20/11/14		NA	22/11/14
3	Assist with maintenance, repair and fault finding on DC electrical systems. List items worked on: 1. Motor bearing changed. 2. Motor winding continuity test. 3. 4. 5.	NA	11/11/14		NA	25/12/14
7.7	Detection of electric malfunction, location of faults and measures to prevent damage			Dismantling, inspecting, repairing and reassembling equipment are in accordance with manuals and good practice. Reassembling and performance testing is in accordance with manuals and good practice	S Rawel	28/12/14
.1	Demonstrate a knowledge of earth faults and how to avoid them	NA	12/10/14		NA	22/11/14
.2	Assist in tracing and correcting earth faults	NA	12/10/14		NA	22/12/14
.3	Isolate and lock out associated equipment when engaged in repair or maintenance work	NA	19/10/14		NA	25/10/14

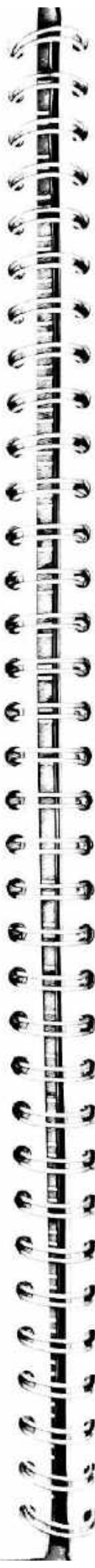
4	Carry out routine testing and maintenance on alarm systems, ensuring that the circuits are isolated, locked out and protected by notices and that appropriate permit to work is issued	<input checked="" type="checkbox"/>	20110114	<input checked="" type="checkbox"/>	15/11/14
5	Assist with correct earthing-down routine for maintenance work on high voltage equipment	<input checked="" type="checkbox"/>	20110114	<input checked="" type="checkbox"/>	15/11/14
6	Assist with fault finding on ship's lighting circuits and component testing	<input checked="" type="checkbox"/>	25/10/14	<input checked="" type="checkbox"/>	15/11/14
7	Assist with repairing or replacing various types of accommodation lights, cargo hold and deck flood lights used on board	<input checked="" type="checkbox"/>	24/10/14	<input checked="" type="checkbox"/>	12/11/14
7.8	Knowledge of the function and performance tests and configuration of monitoring systems, automatic control devices and protective devices				
1	Explain why on any system there should be separate sensors for monitoring and control	<input checked="" type="checkbox"/>	17/11/14	<input checked="" type="checkbox"/>	20/12/14
2	Check and replace defective sensors essential for engine operation	<input checked="" type="checkbox"/>	28/10/14	<input checked="" type="checkbox"/>	20/11/14
3	State at least one main engine monitoring system that automatically stops the engine in case of a fault	<input checked="" type="checkbox"/>	28/10/14	<input checked="" type="checkbox"/>	22/11/14
4	Repair or replace: Fuses	<input checked="" type="checkbox"/>	29/10/14	<input checked="" type="checkbox"/>	23/11/14
5	Control lamps	<input checked="" type="checkbox"/>	29/10/14	<input checked="" type="checkbox"/>	28/11/14
6	Temperature sensors	<input checked="" type="checkbox"/>	29/10/14	<input checked="" type="checkbox"/>	28/11/14
7	Pressure sensors	<input checked="" type="checkbox"/>	29/10/14	<input checked="" type="checkbox"/>	28/11/14
8	Carry out routine testing and maintenance on: Circuit breakers	<input checked="" type="checkbox"/>	12/11/14	<input checked="" type="checkbox"/>	29/11/14
9	Tripping mechanisms	<input checked="" type="checkbox"/>	12/11/14	<input checked="" type="checkbox"/>	29/11/14
10	Motor starters	<input checked="" type="checkbox"/>	15/11/14	<input checked="" type="checkbox"/>	29/11/14
11	Lights	<input checked="" type="checkbox"/>	15/11/14	<input checked="" type="checkbox"/>	7/12/14
12	Check alarm settings and pre-sets contained in a system maintenance log	<input checked="" type="checkbox"/>	20/11/14	<input checked="" type="checkbox"/>	8/12/14
				S. Rowell	
				Dismantling, inspecting, repairing and reassembling equipment are in accordance with manuals and good practice. Reassembling and performance testing is in accordance with manuals and good practice	

Ref No	Training	Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)
7.6	Competence: Maintenance and repair of electrical and electronic equipment	Dismantling, inspecting, repairing and reassembling equipment are in accordance with manuals and good practice. Reassembling and performance testing is in accordance with manuals and good practice	S. R. D. W. E. T 30/12/14
7.8	Knowledge of the function and performance tests and configuration of monitoring systems, automatic control devices and protective devices (continued)		
	Task/Duty	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.13	Outline the advantages and disadvantages of DC and AC motors		M 19/12/14
.14	Outline how an electronic drive control can stop a motor overloading but keep it operating		M 22/12/14
.15	Explain where heat is generated in an electronic drive and how it is dissipated		M 22/12/14

FUNCTION: MAINTENANCE AND REPAIR AT THE OPERATIONAL LEVEL

Ref No	Training	Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)
B.	Competence: Appropriate use of hand tools, machine tools and measuring instruments for fabrication and repair on board	The identification of important parameters for fabrication of typical ship-related components is appropriate. Selection of materials is appropriate. Fabrication is to designated tolerances	S. Reed 25/11/15
8.1	Knowledge of characteristics and limitations of materials and processes used in construction and repair of ships and equipment		
	Task/Duty	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.1	Demonstrate a knowledge of characteristics, properties and limitations of: Mild steel		(M) 20/11/15
.2	High tensile steel		(M) 20/11/15
.3	Stainless steel		(M) 20/11/15
.4	Brass		(M) 20/11/15
.5	Aluminium alloy		(M) 20/11/15
.6	Copper		(M) 20/11/15
8.2	Knowledge of characteristics and limitations of processes used for fabrication and repair	The identification of important parameters for fabrication of typical ship-related components is appropriate. Selection of materials is appropriate. Fabrication is to designated tolerances	S. Reed 14/7/15
.1	Demonstrate a knowledge of characteristics, properties and limitations of: Welding mild steel		
.2	Electric arc welding	(M) 20/12/14	(M) 12/7/15
.3	Argon arc welding	(M) 20/12/14	(M) 12/8/15
.4	Brazing	(M) 22/12/14	(M) 13/11/15
.5	Riveting	(M) 23/12/14	(M) 13/11/15
.6	Synthetic fixing methods	(M) 25/12/14	(M) 14/11/15

Ref No	Training	Criteria for Evaluation	Competence Demonstrated
8	Competence: Appropriate use of hand tools, machine tools and measuring instruments for fabrication and repair on board	Use of equipment and hand tools, machine tools and measuring instruments is appropriate and safe	S. Raouf 30/12/14
8.3	Methods for carrying out safe emergency/temporary repairs	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.1	Demonstrate temporary repair to leaking pipe		(M) 15/12/14
.2	List other temporary repairs made 1. Sea water pump suction line 2. Fire pump suction line 3. Sea water inlet LT cooler 4. Chemical dosing line for sea chest 5. Exhaust side valve of T.L. pipe sound		(M) 20/10/14 (M) 25/10/14
8.4	Safety measures to be taken to ensure a safe working environment and for using hand tools, machine tools and measuring instruments	Use of equipment and hand tools, machine tools and measuring instruments is appropriate and safe	S. Raouf 30/12/14
.1	Demonstrate an understanding of safe working practices and procedures for: Use of power operated tools		(M) 25/10/14
.2	Machine tools		(M) 25/10/14
.3	Welding equipment		(M) 25/10/14
.4	Don appropriate personal protective equipment		(M) 25/10/14
8.5	Use of hand tools and machine tools	Use of equipment and hand tools, machine tools and measuring instruments is appropriate and safe	S. Raouf 30/12/14
In the box below list the shipboard plant or equipment on which you have used, for example, the following hand tools: chisels, saws, spanners, files, hand-drills and machine tools, drill press, milling machine, saw, grinding machine and abrasive wheel.			
	Item Fabricated or Repaired	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.1	Pipes for repairing on red pipe collar, spanners		(M) 25/12/14



2	f.o ventilation box plate	Hand Drill, chisel.	<input checked="" type="checkbox"/>	26/10/14	<input checked="" type="checkbox"/>	24/12/14
3	Prepary Box for scope supt.	Hand Drill, Abrasive wheel	<input checked="" type="checkbox"/>	26/10/14	<input checked="" type="checkbox"/>	25/12/14
4	Tool for pliers	punch, Drill	<input checked="" type="checkbox"/>	28/10/14	<input checked="" type="checkbox"/>	25/12/14
5	filter frame for Ak plot	Hacksaw, Drill, Abrasive wheel.	<input checked="" type="checkbox"/>	1/11/14	<input checked="" type="checkbox"/>	25/12/14
6	P. pen preparation.	Hacksaw, Abrasive wheel	<input checked="" type="checkbox"/>	5/11/14	<input checked="" type="checkbox"/>	25/12/14
7	Clamps for temp repairs	Hacksaw, Abrasive wheel	<input checked="" type="checkbox"/>	2/11/14	<input checked="" type="checkbox"/>	25/12/14
8	fixup of soot blowing hop	Spanner, Pipe wrench.	<input checked="" type="checkbox"/>	16/11/14	<input checked="" type="checkbox"/>	25/12/14
9	limit switch for fire sup	Drill, abrasive wheel.	<input checked="" type="checkbox"/>	15/11/14	<input checked="" type="checkbox"/>	25/12/14
10	Threading on pipe	Die for thread.	<input checked="" type="checkbox"/>	20/11/14	<input checked="" type="checkbox"/>	25/12/14

EG Use of measuring instruments

The selected measuring instruments used for repair and maintenance of machinery and equipment are relevant for the tasks: correct measurements are taken and checked for compliance with stated tolerances

S. Rowell 30/12/14

In the box below list the shipboard plant or equipment on which you have used measuring equipment. Measuring instruments may include, for example, oddleg calipers, digital calipers, internal micrometer, depth gauge and vernier gauge.

Item Fabricated or Repaired	Measuring Instruments Used	Task Completed Supervising Officer/ Instructor (Initials/Date)	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
1 M/E bearing clearance	filler Gauge	<input checked="" type="checkbox"/> 22/10/14		<input checked="" type="checkbox"/> 28/11/14
2 Aux. Engine crankshaft deflection	Oral gage	<input checked="" type="checkbox"/> 27/10/14		<input checked="" type="checkbox"/> 28/11/14
3 M/E crankshaft deflection	Oral Gauge	<input checked="" type="checkbox"/> 28/10/14		<input checked="" type="checkbox"/> 27/12/14
4 Aux Engine V/V tappet clearance	Filler Gauge	<input checked="" type="checkbox"/> 2/11/14		<input checked="" type="checkbox"/> 23/12/14
5 Pipe Dia. measurement	outside caliper, V-caliper	<input checked="" type="checkbox"/> 5/11/14		<input checked="" type="checkbox"/> 28/12/14
6 Threading on pipe	Pitch Gauge	<input checked="" type="checkbox"/> 8/11/14		<input checked="" type="checkbox"/> 27/12/14

Ref No	Training		Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)
	Item Fabricated or Repaired	Measuring Instruments Used		
8.	Competence: Appropriate use of hand tools, machine tools and measuring instruments for fabrication and repair on board		The selected measuring instruments used for repair and maintenance of machinery and equipment are relevant for the tasks; correct measurements are taken and checked for compliance with stated tolerances	S Parrot 30/12/14
8.6	Use of measuring instruments (continued)			
	Item Fabricated or Repaired	Measuring Instruments Used	Task Completed Supervising Officer/ Instructor (Initials/Date)	Task Completed Supervising Officer/ Instructor (Initials/Date)
.7	PCD of flange	Dividers, Vernier calliper	(M) 10/11/14	(M) 20/12/14
.8	Linear callibration	Callibration tool (micrometer screw)	(M) 12/11/14	(M) 25/12/14
.9	Piston my clearance	Filler Gauge	(M) 15/11/14	(M) 25/12/14
.10	Piston rpl twichon	Vernier calliper.	(M) 17/11/14	(M) 27/12/14
8.7	Use of sealants and packings		The selection of materials is appropriate	
.1	Demonstrate the correct use of various types of sealants and packings and note when used: Gland seals. Wash. oil. pump. Gland seal.....		(M) 11/10/14	(M) 20/11/14
.2	Flanges Steam line. Flange packing. (Worm gear)		(M) 12/10/14	(M) 21/11/14
.3	Gasketing materials, including compressed non-asbestos, cork, rubber and fibre		(M) 15/10/14	(M) 21/11/14
.4	Valve stem packing		(M) 15/10/14	(M) 22/11/14
.5	Pump seal Heel. y. pump over. hall. shaft. seal.		(M) 17/10/14	(M) 25/11/14
.6	Hydraulic seal Hydraulic seal of 1. fe. boat. ran.		(M) 18/10/14	(M) 25/11/14
.7	O-Ring seal		(M) 19/10/14	(M) 27/11/14
.8	Flange joint sealants		(M) 19/10/14	(M) 27/11/14
.9	Exhausts and piping .. Exhaust gas pipe lagging.....		(M) 20/10/14	(M) 28/11/14
.10	Shaft seals/packing		(M) 20/10/14	(M) 29/11/14

8.8 Use of special tools for fabrication and repair work on board		Correct tools are chosen and used in accordance with instructions, manuals and safe working practice		S Rowat 27/11/14	
In the box below list the machinery or equipment on which you have carried out repairs, or assisted in repairs with others, showing the special tools used. This includes dismantling, inspection, repair and reassembly work. As a minimum carry out repairs requiring use of: hydraulic tools, bearing pullers and torque wrench. Machinery may include steering gear, engine room pumps and fans, deck winches and windlass, galley and catering equipment and air conditioning.					
Item Fabricated or Repaired	Special Tools Used	Task Completed Supervising Officer/ Instructor (Initials/Date)	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
1 Exhaust valve overhaul	Hydraulic Jacks	M 10/11/14		M 27/11/14	
2 Staffing Box overhaul	Rig expanders	M 10/11/14		M 27/11/14	
3 Boiler feed water P/P	Puller for bearings	M 22/11/14		M 27/11/14	
4 M/E Fuel Injector	Injector Removal tool	M 23/11/14		M 27/11/14	
5 Aux E/F Fuel Injector	Injector Removal tool	M 25/11/14		M 27/11/14	
6 M/E panche valve		M 25/11/14		M 27/11/14	
7 M/E unit overhaul		M 26/11/14		M 27/11/14	
8 Aux E/F fuel pump		M 26/11/14		M 27/11/14	
9 LT pump Overhaul	Puller for bearings	M 27/11/14		M 27/11/14	
10 Pumpier overhaul	All pumpier tools	M 27/11/14		M 27/11/14	
8.9 Use of machine tools and welding equipment for fabrication and repairs			The selected material is suitable for the part to be fabricated and the work is carried out within the designated tolerances and in accordance with safe working practice	S Rowat 10/12/14	
In the box below list the parts which you have fabricated (made), or assisted in making, using machine tools. For example: centre lathes, drill press, gas welding/brazing equipment, gas cutting equipment including plasma arc, electric arc welding and other special equipment.					
Item Fabricated or Repaired	Machine Tools or Equipment Used	Task Completed Supervising Officer/ Instructor (Initials/Date)	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
1 Harbor sewage pump	Gas cutter, weldy	M 11/11/14		M 9/12/14	
2 Expansion tank pipe	weldy, Gas cutter	M 13/11/14		M 10/12/14	

Ref No	Training	Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)
9	Competence: Maintenance and repair of shipboard machinery and equipment		
9.1	Locate and use relevant data sources, manuals and drawings Before starting any maintenance or repair work ensure that you have completed the tasks concerned with Safety at Work on page 26. In addition, ensure that you are familiar with the procedures for safe isolation of electrical equipment on your present ship, and that you are in possession of an appropriate permit to work.	The manufacturers' instructions and drawings relevant for the job are quickly identified and properly used	Start 15/12/14
	Task/Duty	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.1	Demonstrate a knowledge of the ship's Planned Maintenance System		10/12/14
.2	Demonstrate an understanding of manufacturers' instructions and drawings for use in maintenance tasks		16/12/14
.3	State what is required in a Planned Maintenance System		12/12/14
.4	Assist with input to the ship's Planned Maintenance System		14/12/14
.5	Retrieve reports from a computer-based maintenance system		15/12/14
.6	Participate in a survey of running machinery using condition monitoring equipment, if applicable		17/12/14
.7	Assist in interpretation of results of such survey		17/12/14
.8	Describe how items of spare gear are stored and maintained in good condition		15/12/14
9.2	Ensure safety of all personnel working on plant or equipment	Isolation, dismantling and reassembly of plant and equipment is in accordance with accepted safe working practices and procedures	Start 28/11/15
.1	State special precautions to be taken for repair and maintenance work in hazardous areas		10/11/15
.2	Demonstrate an understanding of safe working practices and procedures for: Use of portable power operated tools		10/11/15

Ref No	Training	Criteria for Evaluation	Competence Demonstrated	
			Designated Training Officer/In Service Assessor (Initials/Date)	Task Completed Supervising Officer/ Instructor (Initials/Date)
9	Competence: Maintenance and repair of shipboard machinery and equipment	Isolation, dismantling and reassembly of plant and equipment is in accordance with accepted safe working practices and procedures	S Rawat	28/11/15
9.2	Ensure safety of all personnel working on plant or equipment (continued)			
	Task/Duty	Task Completed	Supervising Officer/ Instructor (Initials/Date)	Task Completed
.3	Entry into enclosed spaces (tank entry)			25/11/15
.4	Work beneath floor plates			24/11/15
.5	Use of lifting gear			23/11/15
.6	Moving heavy machinery			23/11/15
.7	Work within refrigeration machinery spaces			24/11/15
.8	Work on electrical machinery			24/11/15
.9	Disposal of oily waste materials			25/11/15
.10	Use of appropriate protective clothing			25/11/15
.11	Working at height			25/11/15
.12	Manual lifting and carrying			25/11/15
9.3	Understand maintenance and repairs to the main engine	Dismantling, inspecting, repairing and reassembling equipment is in accordance with manuals and good practice. Re-commissioning and performance testing is in accordance with manuals and good practice. Selection of materials and parts is appropriate	S Rawat	28/11/15
.1	Take and log readings of crankshaft deflections			15/11/14
.2	Change, inspect, check condition, wear and clearance, overhaul and test, as appropriate: Inlet valves			15/11/14
.3	Fuel injection valves			20/11/14

.4	Air start valves	2/11/14	Ⓜ	22/11/14	Ⓜ
.5	Relief valves	5/11/14	Ⓜ	22/11/14	Ⓜ
.6	Exhaust valves, where appropriate	7/11/14	Ⓜ	22/11/14	Ⓜ
.7	Fuel pumps	15/11/14	Ⓜ	27/11/14	Ⓜ
.8	Cam shafts	17/11/14	Ⓜ	27/11/14	Ⓜ
.9	Crosshead bearings	18/11/14	Ⓜ	27/11/14	Ⓜ
.10	Fuel oil filters	20/11/14	Ⓜ	30/11/14	Ⓜ
.11	Lube oil filters	20/11/14	Ⓜ	30/11/14	Ⓜ
.12	Air filters	22/11/14	Ⓜ	30/11/14	Ⓜ
.13	Use turning gear, under supervision, taking all safety precautions	22/11/14	Ⓜ	11/12/14	Ⓜ
.14	Change and/or overhaul the following main engine components, checking clearances, where appropriate: Pistons	25/11/14	Ⓜ	11/12/14	Ⓜ
.15	Cylinder heads	25/11/14	Ⓜ	20/12/14	Ⓜ
.16	Turbochargers	26/11/14	Ⓜ	20/12/14	Ⓜ
.17	Top end bearings	26/11/14	Ⓜ	10/11/15	Ⓜ
.18	Bottom end bearings	27/11/14	Ⓜ	12/11/15	Ⓜ
.19	Indicator cocks	27/11/14	Ⓜ	12/11/15	Ⓜ
.20	Main bearings	28/11/14	Ⓜ	12/11/15	Ⓜ
.21	Piston-rod scraper box/stuffing box	28/11/14	Ⓜ	15/11/15	Ⓜ
.22	Crosshead guides	29/11/14	Ⓜ	15/11/15	Ⓜ
.23	Tie bolts	29/11/14	Ⓜ	17/11/15	Ⓜ
.24	Holding-down bolts and chocks	29/11/14	Ⓜ	17/11/15	Ⓜ

Ref No	Training	Criteria for Evaluation	Competence Demonstrated Designating Training Officer/In Service Assessor (Initials/Date)
9	Competence: Maintenance and repair of shipboard machinery and equipment	Dismantling, inspecting, repairing and reassembling equipment is in accordance with manuals and good practice. Recommissioning and performance testing is in accordance with manuals and good practice. Selection of materials and parts is appropriate	S P O W O L 28/11/15
9.3	Undertake maintenance and repairs to the main engine (continued)		
	Task/Duty	Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.25	Inspect scavenge trunk and exhaust spaces and report on: Cleanliness/deposits	Dismantling, inspecting, repairing and reassembling equipment is in accordance with manuals and good practice. Recommissioning and performance testing is in accordance with manuals and good practice. Selection of materials and parts is appropriate	IN 15/11/15
.26	Scavenge drains		IN 15/11/15
.27	Scavenge valves		IN 15/11/15
.28	Carry out a crankcase inspection		IN 15/11/15
9.4	Undertake maintenance and repairs to the auxiliary engine	READ THE MANUALS AND GET THE KNOWLEDGE OF THE COMPONENTS.	Nashu 27/12/15
.1	Take and log readings of crankshaft deflections		lu 10/2/15
.2	Change, inspect, check condition, wear and clearance, overhaul and test: Fuel injection valves		lu 10/2/15
.3	Air start valves		lu 10/2/15
.4	Relief valves		lu 12/2/15
.5	Inlet valves		lu 12/2/15
.6	Exhaust valves		lu 14/2/15
.7	Fuel pumps		lu 10/2/15
.8	Camshaft	lu 10/2/15	

9	Fuel oil filters	le	12/2/15			le	22/2/15
.10	Lube oil filters	le	12/2/15			le	22/2/15
.11	Air filters	le	12/2/15			le	24/2/15
.12	Jacket cooling water pump	le	14/2/15			le	24/2/15
.13	Change and/or overhaul the following components, checking and adjusting clearances, where appropriate: Pistons	le	14/2/15			le	24/2/15
.14	Cylinder heads	le	15/2/15			le	24/2/15
.15	Turbochargers	le	16/2/15			le	24/2/15
.16	Top end bearings	le	17/2/15			le	25/2/15
.17	Bottom end bearings	le	17/2/15			le	26/2/15
.18	Indicator cocks	le	11/2/15			le	26/2/15
.19	Main bearings	le	11/2/15			le	27/2/15
.20	Holding-down bolts and chocks	le	17/2/15			le	27/2/15
.21	Carry out a crankcase inspection	le	17/2/15			le	27/2/15
.22	Commission engine after overhaul	le	27/2/15			le	27/2/15
95	Undertake maintenance and repair to the auxiliary boiler					Nadder	27/2/15
.1	Take a boiler out of service	le	10/2/15			le	27/2/15
.2	Isolate boiler	le	10/2/15			le	27/2/15
.3	Blow a boiler down	le	10/2/15			le	27/2/15
.4	Open up a boiler	le	10/2/15			le	27/2/15

Dismantling, inspecting, repairing and reassembling equipment is in accordance with manuals and good practice. Recommissioning and performance testing is in accordance with manuals and good practice. Selection of materials and parts is appropriate

Ref No	Training	Criteria for Evaluation	Competence Demonstrated
9	Competence: Maintenance and repair of shipboard machinery and equipment	Dismantling, inspecting, repairing and reassembling equipment is in accordance with manuals and good practice. Recommissioning and performance testing is in accordance with manuals and good practice. Selection of materials and parts is appropriate	Noble 29/2/15
9.5	Undertake maintenance and repair to the auxiliary boiler (continued)		
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)	Task Completed Supervising Officer/ Instructor (Initials/Date)
.5	Examine a boiler, reporting on its condition: Internally	JW 15/2/15	JW 27/2/15
.6	Externally	JW 15/2/15	JW 27/2/15
.7	Open up and inspect: Safety valves	JW 16/2/15	JW 27/2/15
.8	Feed check valves	JW 16/2/15	JW 27/2/15
.9	Ancillary valves	JW 16/2/15	JW 27/2/15
.10	Overhaul and test water gauge glass and check that passages, cocks and valves are clear	JW 17/2/15	JW 27/2/15
.11	Change and overhaul burner	JW 18/2/15	JW 27/2/15
9.6	Undertake maintenance and repair to plant and equipment	Dismantling, inspecting, repairing and reassembling equipment is in accordance with manuals and good practice. Recommissioning and performance testing is in accordance with manuals and good practice. Selection of materials and parts is appropriate	S. Powell 15/12/14
.1	Open up purifiers/separators for cleaning and maintenance		
.2	Reassemble purifiers/separators	JW 15/10/14	JW
.3	Carry out routine maintenance on a main compressor	JW 17/10/14	JW
.4	Check and service: Control air filters	JW 17/10/14	JW
.5	Control air driers, replacing desiccant	JW 17/10/14	JW

.6	Carry out routine maintenance on refrigeration plant		18/10/14			15/11/14
.7	Carry out routine maintenance on fresh water generator		20/10/14			12/11/14
.8	Open up and overhaul positive displacement pump		20/10/14			17/11/14
.9	Open up and overhaul centrifugal pump		22/10/14			17/11/14
.10	Overhaul and test valves including: Gate		22/10/14			23/11/14
.11	Stop disk non return		24/10/14			15/11/14
.12	Screw lift		24/10/14			10/12/14
.13	Relief		24/10/14			11/12/14
.14	Two or three way		25/10/14			11/12/14
.15	Shut-off cock		25/10/14			11/12/14
.16	Carry out routine maintenance on: Anchor windlass		27/10/14			15/12/14
.17	Cargo winches		27/10/14			15/12/14
.18	Cargo cranes		27/10/14			15/12/14
.19	Mooring winches		28/10/14			15/12/14
.20	Capstans		28/10/14			15/12/14
.21	Hatch covers		28/10/14			22/11/14
.22	Steering gear		29/10/14			20/11/14
.23	Engine room lifting gear		29/10/14			20/11/14

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)
9.	Competence: Maintenance and repair of shipboard machinery and equipment				
9.6	Undertake maintenance and repair to plant and equipment (continued)			<i>Dismantling, inspecting, repairing and reassembling equipment is in accordance with manuals and good practice. Recommissioning and performance testing is in accordance with manuals and good practice. Selection of materials and parts is appropriate</i>	S. Rawat 27/11/15
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.24	List other items of plant and equipment on which you have worked: 1. Heeling Pump overhaul. 2. Boiler feed pump overhaul. 3. Boiler fuel supply p/p overhaul. 4. Incinerator fuel supply p/p overhaul. 5. Seachest chemical dosing p/p overhaul.	(M) 17/11/14			(M) 20/12/14
9.7	Undertake maintenance and repair to emergency equipment			<i>Isolation, dismantling and reassembly is in accordance with accepted practices and procedures. Correct tools are chosen and used without causing damage to machinery or equipment</i>	S. Rawat 27/11/15
.1	Carry out routine maintenance on: Fire pumps	(M) 20/10/14			(M) 17/12/14
.2	Fire flaps	(M) 20/10/14			(M) 17/12/14
.3	ER fire extinguishing system and equipment	(M) 20/10/14			(M) 17/12/14
.4	Emergency generator	(M) 21/10/14			(M) 19/12/14
.5	Emergency compressor	(M) 22/10/14			(M) 20/12/14
.6	Remote stops for pumps with overboard discharges	(M) 22/10/14			(M) 20/12/14
.7	Fuel valve trips	(M) 24/10/14			(M) 22/12/14
.8	Breathing apparatus sets and recharging breathing apparatus bottles	(M) 25/10/14			(M) 22/12/14
.9	Survival craft	(M) 22/10/14			(M) 22/12/14

FUNCTION: CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE OPERATIONAL LEVEL

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
10.	Competence: Application of leadership and teamworking skills					
10.1	Plays team role			<i>Displays awareness of others working nearby and in common goals. Communicates clearly and unambiguously in language understood. Challenges questionable decisions in a seamanlike manner. Freely shares information concerning the manoeuvre or task in hand</i>	S. Rawat	27/11/15
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Understand that as a team member everyone has different experience and has a role to play in any task	M	1/11/14		M	22/11/14
.2	Participate actively in task planning meetings involving different ranks	M	1/11/14		M	24/11/14
.3	Understand communication is a two-way exchange and demonstrate this in practice both in the engine room and when working on deck	M	1/11/14		M	22/11/14
.4	Maintain awareness of changing situations	M	2/11/14		M	22/11/14
.5	Accept authority but not be afraid to question if in doubt	M	7/11/14		M	22/11/14
.6	Check own understanding of situation is shared by other team members	M	8/11/14		M	22/11/14
.7	Participate actively in task review and evaluation meetings involving different ranks	M	9/11/14		M	22/11/14
10.2	Exhibits leadership ability			<i>Takes initiative and carries others along with what needs to be done in timely way</i>	S. Rawat	27/11/15
.1	Think ahead and plan tasks that will follow the immediate task or manoeuvre	M	10/12/14		M	15/11/15
.2	Set priorities correctly when seeing conflict between immediate needs and tasks that may be held back	M	10/12/14		M	15/11/15
.3	Allocate resources effectively to achieve desired outcomes	M	10/12/14		M	15/11/15

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)
10	Competence: Application of leadership and teamworking skills				
10.2	Exhibits leadership ability (continued)			Takes initiative and carries others along with what needs to be done in timely way	S Rowat 27/1/15
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.4	Check results and take corrective actions as needed/ instructed	M	12/12/14		M 16/1/15
.5	Demonstrate confidence and maturity to refer to senior officer if in doubt	M	12/1/15		M 16/1/15

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)
11	Competence: Ensure compliance with pollution prevention requirements				
11.1	Implement proactive measures to protect the marine environment			The operations are properly planned and comply with international regulation in spirit as well as in word. Ensures that a positive environmental reputation is maintained	S Rowat 28/1/15
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.1	Understand that environmental protection includes both sea and air which are protected by mandatory MARPOL regulations	M	10/12/14		M 7/1/15
.2	Name at least two Particularly Sensitive Sea Areas (PSSAs) 1. Japan Sea 2. China Sea	M	11/12/14		M 8/1/15
.3	Demonstrate by example preparedness to take personal responsibility for actions to protect the marine environment	M	14/12/14		M 10/1/15

.4	Understand that marine pollutants must be landed ashore for safe disposal in compliance with MARPOL	<input checked="" type="checkbox"/>	15/12/14		<input checked="" type="checkbox"/>	8/1/15
.5	Understand there are strict rules covering the storage and disposal of oily water mixtures applicable to all ships	<input checked="" type="checkbox"/>	15/12/14		<input checked="" type="checkbox"/>	8/1/15
.6	Understand there are strict rules covering disposal of noxious liquid substances applicable to all ships	<input checked="" type="checkbox"/>	15/12/14		<input checked="" type="checkbox"/>	8/1/15
.7	Understand there are strict rules covering disposal of harmful substances carried in packaged form applicable to all ships	<input checked="" type="checkbox"/>	16/12/14		<input checked="" type="checkbox"/>	12/1/15
.8	Understand there are strict rules covering pollution prevention by sewage applicable to ships	<input checked="" type="checkbox"/>	17/12/14		<input checked="" type="checkbox"/>	21/1/15
.9	Understand there are strict rules for prevention of pollution by garbage from ships, applicable to all ships	<input checked="" type="checkbox"/>	17/12/14		<input checked="" type="checkbox"/>	14/1/15
.10	Understand there are strict rules covering air pollution from ships at sea which will progressively apply to all ships	<input checked="" type="checkbox"/>	19/12/14		<input checked="" type="checkbox"/>	14/1/15
.11	Understand the impact of SOx, NOx, VOC and PM and why efforts are needed to reduce atmospheric pollution	<input checked="" type="checkbox"/>	19/12/14		<input checked="" type="checkbox"/>	14/1/15
11.2	Ensure that procedures are agreed and properly planned before bunkering			The operations are properly planned, all scuppers are blocked and pipes and hoses inspected before bunkering takes place	S Rawat	20/12/14
.1	Plug deck scuppers	<input checked="" type="checkbox"/>	21/12/14		<input checked="" type="checkbox"/>	20/12/14
.2	Demonstrate knowledge of ship's bunkering procedures	<input checked="" type="checkbox"/>	8/12/14		<input checked="" type="checkbox"/>	20/12/14
.3	Participate in bunkering operations	<input checked="" type="checkbox"/>	8/12/14		<input checked="" type="checkbox"/>	20/12/14
.4	Demonstrate the emergency shutdown procedure	<input checked="" type="checkbox"/>	8/12/14		<input checked="" type="checkbox"/>	20/12/14
11.3	Initiate immediate investigation to detect the source on discovering any pollution around the ship			All available resources are utilised to detect the source and the master or authorities are informed as appropriate	S Rawat	28/12/14
.1	Participate in an emergency response exercise for controlling spillage of oil or other noxious or toxic substances on board	<input checked="" type="checkbox"/>	1/12/14		<input checked="" type="checkbox"/>	25/12/14
.2	Be aware of the importance of immediately reporting and investigating potential pollution incidents	<input checked="" type="checkbox"/>	1/12/14		<input checked="" type="checkbox"/>	25/12/14

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
11	Competence: Ensure compliance with pollution prevention requirements					
11.4	Stop or prevent leakages and spills of harmful liquids and solid substances			<i>The situation is thoroughly assessed and the actions taken are well organised and exercised and due consideration taken of the extent of the pollution</i>	S Rawat	28/12/14
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Demonstrate use of Material Safety Data Sheets and the IMDG Code to obtain information on cargo hazards and handling instructions	M	21/12/14		M	15/12/14
.2	Participate in drill for clean-up of hazardous spillage	M	5/12/14		M	18/12/14
11.5	Sound all tanks and compartments if any damage is suspected			<i>The soundings are readily available and the results immediately reported to the master</i>	S. Rawat	28/12/14
.1	Participate in an emergency response exercise for stranding	M	11/11/14		M	25/12/14
.2	Perform soundings of bilges, peak tanks, double bottom and other tanks and record information if any hull damage is suspected	M	15/11/14		M	25/12/14
11.6	Carry out bilge, ballast and bunkering operations			<i>All operations are carried out in accordance with MARPOL and due regard paid to the Shipboard Oil Pollution Emergency Plan (SOPEP)</i>	S Rawat	28/12/14
.1	Locate the ship's ballast water management plan and demonstrate an understanding of its content	M	17/10/14		M	22/12/14
.2	Understudy the engineer officer conducting a ballasting operation	M	20/10/14		M	22/12/14
.3	Have knowledge of requirements of MARPOL and Annexes	M	25/10/14		M	22/12/14
.4	Demonstrate an understanding of Oil Discharge Monitor Equipment operation (oil tankers)	M	25/10/14		M	22/12/14
.5	Demonstrate an understanding of the record keeping required in the Oil Record Book	M	23/10/14		M	22/12/14

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
12.	Competence: Maintain seaworthiness of the ship					
12.1	Inspect hull and hull openings, compartments, hatch covers and equipment, and take action where defects are detected			The inspection is properly carried out, due regard paid to the prevailing circumstances and areas where defects are most likely to occur. Any defect is immediately reported and recorded and the suggested or executed action adequate for the situation	ASD	27/2/15
Task/Duty		Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Demonstrate an understanding of the precautions required for: Entry into enclosed spaces	ASD	20/8/14	- PROPER PERMIT TO BE FOLLOWED - GET ASSISTANCE FROM OTHER DEPARTMENT WHENEVER NEEDED.	ASD	15/2/15
.2	Working at height	ASD	20/8/14		ASD	15/2/15
.3	Using power tools	ASD	20/8/14		ASD	15/2/15
.4	Manual lifting and carrying	ASD	20/8/14		ASD	25/8/14
.5	Where applicable, assist with the opening, closing and securing of hatches	ASD	22/8/14		ASD	20/2/15
.6	Assist with the maintenance of watertight doors, ports and hatches	ASD	22/8/14		ASD	20/2/15
.7	Carry out routine maintenance and repair on: Anchor windlass	ASD	25/8/14		ASD	20/2/15
.8	Cargo handling equipment	ASD	25/8/14		ASD	20/2/15
.9	Mooring winches	ASD	28/8/14		ASD	20/2/15
.10	Carry out full inventory check of the engine stores	ASD	28/8/14		ASD	8/10/14
.11	Prepare steel plates and other surfaces for protective coating	ASD	28/8/14		ASD	27/2/15
.12	Apply protective coats to appropriate surfaces	ASD	30/8/14		ASD	20/2/15

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
12	Competence: Maintain seaworthiness of the ship					
12.2	Ensure that all loose objects are securely fastened to avoid damage			Inspection is carried out at regular intervals and more frequently in heavy weather or if other incidents occur. Heavy or otherwise dangerous objects are given the highest priority and good seamanship exercised	None	27/2/15
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Ensure that all gear, tools, spares etc. are properly stowed and secured	lu	30/8/14		lu	30/8/14
12.3	Arrange for regular control measures to ensure watertight integrity			Peaks, bilges, tanks and other compartments are sounded regularly, the results recorded and any irregularities reported and examined further	None	27/2/15
.1	Take and record the daily soundings of engine room tanks, bilges and other spaces: By manual means	lu	30/8/14	SOUNDING CAPS SELF CLOSING MECHANISM NEED TO BE CHECKED.	lu	30/8/14
.2	By use of gauges	lu	30/8/14		lu	30/8/14

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
13	Competence: Prevent, control and fight fires on board					
13.1	Operate fire and smoke detecting equipment			The equipment is tested and operated at regular intervals and in accordance with manufacturer's manuals and ship specific instructions	None	25/2/15
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Understand use and assist in the maintenance of: Portable foam extinguisher	lu	10/2/15	SAFETY PINS OF EXTINGUISHER ON PLACE.	lu	25/2/15
.2	Portable CO ₂ extinguisher	lu	10/2/15		lu	25/2/15
.3	Portable dry powder extinguisher	lu	10/2/15		lu	25/2/15

.4	Portable water extinguisher	lee	10/2/15		lee	25/2/15
.5	Maintain hoses, nozzles and couplings	lee	10/2/15		lee	25/2/15
13.2	Ensure that all persons on watch are able to detect and correct hazardous situations and actions and keep the ship clean and tidy			Personnel on watch making inspections in areas at risk from possible fires are supervised. Ensure readily combustible materials are stored safely and the watch demonstrate an attitude of alertness to fire prevention	made	25/2/15
.1	Perform fire patrol duties	lee	20/8/14		lee	20/2/15
.2	Re-stow gear and secure after maintenance work	lee	25/8/14		lee	20/2/15
13.3	Instruct the watch in locating fire-fighting appliances and emergency escape routes and sound alarm			Instruct watch in use of portable or other fire extinguishers. Demonstrate an ability to raise the alarm	made	25/2/15
.1	Carry out a full inspection of fire-fighting equipment and report to the chief engineer	lee	20/2/15		lee	25/2/15
.2	Participate in an emergency response exercise for fire at sea and in port	lee	20/2/15		lee	25/2/15
13.4	Locate fire stations and demonstrate proper use of fixed installations and other fire-fighting appliances and agents			All stations are located and the most suitable one selected in the event of a fire. Proper equipment and extinguishing agents for the various materials on fire are selected	made	25/2/15
.1	Assist with the testing of the following systems, where fitted: Fire detection and alarm systems	lee	10/2/15	THESE ARE IMPORTANT FIRE FIGHTING SYSTEM ON BOARD GET COMPLETE KNOWLEDGE OF ALL SYSTEMS ON BOARD AND HOW TO OPERATE IT.	lee	20/2/15
.2	Fire alarms	lee	10/2/15		lee	20/2/15
.3	Fixed automatic sprinklers	lee	11/2/15		lee	20/2/15
.4	Fixed steam systems	lee	11/2/15		lee	20/2/15
.5	Fixed foam extinguishers	lee	11/2/15		lee	20/2/15
.6	Fixed CO ₂ systems	lee	11/2/15		lee	20/2/15
.7	Fire flaps and dampers	lee	15/2/15		lee	24/2/15
.8	Automatic and manual fire doors	lee	15/2/15		lee	24/2/15
.9	Emergency shut off valves, pump stops and main engine stops	lee	15/2/15		lee	24/2/15

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
13	Competence: Prevent, control and fight fires on board					
13.4	Locate fire stations and demonstrate proper use of fixed installations and other fire-fighting appliances and agents (continued)			<i>All stations are located and the most suitable one selected in the event of a fire. Proper equipment and extinguishing agents for the various materials on fire are selected</i>	<i>NAIDE</i>	<i>27/2/15</i>
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.10	Describe the operation of the fixed fire extinguishing system for the engine room	<i>lee</i>	<i>16/2/15</i>		<i>lee</i>	<i>25/2/15</i>
.11	State the safety precautions required prior to operating the system	<i>lee</i>	<i>16/2/15</i>		<i>lee</i>	<i>25/2/15</i>
13.5	Locate and use fire protective equipment (fire-fighter's outfit, including breathing apparatus)			<i>The equipment is quickly donned and used in such a way that no accidents are likely to occur</i>	<i>NAIDE</i>	<i>28/2/15</i>
.1	Demonstrate the procedures and precautions required for entry into an enclosed space	<i>lee</i>	<i>10/2/15</i>	<i>CHECK THE SEAGULL VIDEO LIBRARY FOR VIDEO.</i>	<i>lee</i>	<i>20/2/15</i>
.2	Recognise the different uses for a Self Contained Breathing Apparatus (SCBA) set and an Emergency Escape Breathing Device	<i>lee</i>	<i>10/2/15</i>		<i>lee</i>	<i>20/2/15</i>
.3	Demonstrate donning and use of SCBA sets	<i>lee</i>	<i>10/2/15</i>		<i>lee</i>	<i>20/2/15</i>
.4	Demonstrate donning and use of a fire-fighter's outfit	<i>lee</i>	<i>10/2/15</i>		<i>lee</i>	<i>20/2/15</i>
.5	Demonstrate donning and use of a fire-fighter's outfit with a SCBA set	<i>lee</i>	<i>10/2/15</i>		<i>lee</i>	<i>20/2/15</i>
.6	Demonstrate the use of a SCBA record/control board	<i>lee</i>	<i>10/2/15</i>		<i>lee</i>	<i>20/2/15</i>
13.6	Demonstrate ability to act in accordance with the fire-fighting plan during fire drills			<i>During debriefing after an exercise or a real fire extinguishing incident, the reasons for each action taken, including the priority in which they were taken, are explained and accepted as the most appropriate</i>	<i>NAIDE</i>	<i>27/2/15</i>
.1	Take charge of a fire party during an exercise	<i>lee</i>	<i>15/2/15</i>		<i>lee</i>	<i>27/2/15</i>
.2	Demonstrate the use and location of all engine room safety appliances	<i>lee</i>	<i>15/2/15</i>		<i>lee</i>	<i>27/2/15</i>
.3	Demonstrate a knowledge of all engine room escape routes	<i>lee</i>	<i>15/2/15</i>		<i>lee</i>	<i>27/2/15</i>

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
14.	Competence: Operate life-saving appliances					
14.1	Organise abandon ship drills			On sounding the alarm all persons meet at the designated lifeboat station wearing safety belts or immersion suits and carry out their duties on request	1/ade	27/2/15
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Understand the hazards to seafarers of manning life boats for drills and exercises	lu	15/2/15	PROPER COMMUNICATION TO BE MAINTAINED WITH OTHER PARTIES.	lu	25/2/15
.2	Understand the need to be familiar with the operation of on-load release mechanisms	lu	15/2/15		lu	25/2/15
.3	Recognise that fall prevention devices (FPDs), where fitted, should be used in drills (to prevent unforeseen detachment)	lu	15/2/15		lu	25/2/15
.4	Recognise the need for meticulous inspection and maintenance of on-load release mechanisms	lu	15/2/15		lu	25/2/15
.5	Identify the permanent marking on survival craft with regard to the number of occupants	lu	15/2/15		lu	25/2/15
.6	Locate and test the operation of: Radio devices including satellite EPIRBs and SARTs	lu	16/2/15		lu	25/2/15
.7	Pyrotechnic distress signals	lu	16/2/15		lu	25/2/15
.8	State precautions for disposal of out of date pyrotechnics	lu	16/2/15		lu	25/2/15
.9	Understudy an officer in charge of an abandon ship drill	lu	16/2/15		lu	25/2/15
14.2	Launch, handle and recover a lifeboat			Correct orders for embarkation, launching and immediately clearing the ship's side are given. The boat is safely handled under motor or oars, as appropriate. The boat is safely recovered and ready	1/ade	27/2/15
.1	Assist with preparation and swinging out of lifeboats and be aware of potential risks	lu	6/2/15		lu	25/2/15
.2	Assist with preparation and boarding of free fall lifeboat and be aware of potential risks	lu	6/2/15		lu	25/2/15

Ref No	Training				Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)
4.	Competence: Operate life-saving appliances				
14.2	Launch, handle and recover a lifeboat (continued)				
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)
.3	Assist with lowering a lifeboat to clear the ship and ride to a sea anchor	lee	6/2/15		lee 25/2/15
.4	Start and operate a lifeboat engine	lee	6/2/15		lee 25/2/15
.5	Crew a boat under: Oars <input type="checkbox"/> Power <input checked="" type="checkbox"/>	lee	6/2/15		lee 25/2/15
.6	Cox a boat under: Oars <input type="checkbox"/> Power <input checked="" type="checkbox"/>	lee	6/2/15		lee 25/2/15
.7	Assist with recovering and securing a lifeboat	lee	6/2/15		lee 25/2/15
.8	Assist with recovering and securing a free fall lifeboat	lee	6/2/15		lee 25/2/15
14.3	Launch or throw overboard a life raft, and manoeuvre it clear of ship's side				lee 28/2/15
.1	Demonstrate an understanding of the procedure for launching and inflating life rafts, if the opportunity arises	lee	10/2/15		lee 20/2/15
14.4	Operate radio life-saving appliances				lee 28/2/15
.1	Rig and operate the portable lifeboat radio under supervision	lee	11/2/15		lee 11/2/15

14.5 Ensure that all required equipment on board a rescue craft is functioning and maintained as specified in the SOLAS Training Manual		Proper use of pyrotechnics, food, water and signalling equipment is satisfactorily demonstrated		Name	Date
.1	Demonstrate an understanding of statutory equipment required in survival craft and its correct use	lee	16/2/15	lee	28/2/15
.2	State minimum food and water requirements for occupants of survival craft	lee	16/2/15	lee	27/2/15
.3	Locate and understand operation of pyrotechnics including precautions for their disposal	lee	16/2/15	lee	27/2/15
.4	Explain the operation of rocket line throwing apparatus	lee	16/2/15	lee	27/2/15
.5	Explain the operation of distress rockets, flares and other pyrotechnics	lee	16/2/15	lee	27/2/15
.6	Assist with the maintenance of: Lifeboats and rescue boats	lee	16/2/15	lee	27/2/15
.7	Lifeboat equipment and provisions	lee	10/2/15	lee	27/2/15
.8	Launching davits and gear	lee	10/2/15	lee	28/2/15
.9	Buoyant apparatus, e.g. lifebuoys, lifejackets and attachments	lee	10/2/15	lee	27/2/15
.10	Immersion suits and thermal protective aids	lee	10/2/15	lee	27/2/15
.11	Other survival craft, specify type	lee	10/2/15	lee	27/2/15
.12	Assist with the routine maintenance of a lifeboat engine	lee	10/2/15	lee	27/2/15

GET FAMILIARIZE WITH LOWERING OF LIFEBOAT RESCUE BOAT.

Ref No	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)			
15	Competence: Apply medical first aid on board ship			The actions demonstrated are in compliance with accepted recommendations given in international medical first aid guidance	Naide	28/2/15		
15.1	Stop excessive bleeding, ensure breathing and put casualties in proper position							
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)			
.1	Participate in an emergency first aid drill at sea	Je	10/2/15		Je	20/2/15		
.2	Demonstrate a basic understanding of first aid principles: Stopping bleeding	Je	10/2/15		Je	20/2/15		
.3	Treatment of suffocation/drowning	Je	10/2/15		Je	20/2/15		
.4	Placing casualty in the recovery position	Je	10/2/15		Je	20/2/15		
15.2	Detect signs of shock and heat stroke and act accordingly			The treatment recommended or given is adequate. Ability to request Radio Medico for advice is demonstrated	Naide	28/2/15		
.1	Demonstrate how to handle a casualty in shock	Je	15/2/15				Je	20/2/15
.2	Demonstrate procedures for dealing with heat stroke	Je	15/2/15	Je	20/2/15			
15.3	Treat burns, scalds, fractures, and hypothermia			Recommended guidelines for proper actions are explained. Principles for avoiding hypothermia are demonstrated	Naide	28/2/15		
.1	State procedure for dealing with a casualty of electric shock	Je	20/2/15				Je	28/2/15
.2	Demonstrate procedure for treating burns	Je	20/2/15				Je	28/2/15
.3	Demonstrate procedure for treating minor fractures	Je	20/2/15				Je	28/2/15
.4	State procedures for avoiding hypothermia	Je	20/2/15				Je	28/2/15
.5	Demonstrate procedures for treating casualty with hypothermia	Je	20/2/15	Je	28/2/15			

Ref to	Training			Criteria for Evaluation	Competence Demonstrated Designated Training Officer/In Service Assessor (Initials/Date)	
16	Competence: Monitor compliance with legislative requirements					
16.1	State where laws, rules and regulations concerning ship operation and pollution prevention are available			The statement given is correct and includes relevant bodies or organisations which may be contacted to obtain special information or guidance which is not easily accessible	1/Naide	28/2/15
	Task/Duty	Task Completed Supervising Officer/ Instructor (Initials/Date)		Advice on Areas for Improvement	Task Completed Supervising Officer/ Instructor (Initials/Date)	
.1	Locate on board copies of: SOLAS	lee	7/2/15	MARPOL, SOLAS BOOKS TO BE REFER.	lee	15/2/15
.2	MARPOL	lee	7/2/15		lee	15/2/15
.3	Shipboard Oil Pollution Emergency Plan (SOPEP)	lee	7/2/15		lee	15/2/15
.4	Garbage Record Book	lee	7/2/15		lee	15/2/15
.5	Locate copies of certificates issued under SOLAS, MARPOL, Load Line, STCW, ILO MLC, and other regulations	lee	7/2/15		lee	15/2/15
16.2	Use legislation to check on board operations comply with international regulations			Correct response is established within an acceptable period of time and consequential actions executed	Naide	28/2/15
.1	Participate in engine room oil and oily waste handling operations in compliance with MARPOL	lee	9/2/15	GARBAGE SEGREGATION IN THE CIR IS VERY IMPORTANT.	lee	20/2/15
.2	Dispose of garbage in compliance with MARPOL and ship's Garbage Management Plan	lee	9/2/15		lee	20/2/15
.3	Assist in checking machinery and equipment prior to survey	lee	10/2/15		lee	19/2/15
.4	Participate in shipboard inspection prior to an International Oil Pollution Prevention (IOPP) survey	lee	10/2/15		lee	19/2/15
16.3	Searching for stowaways			A comprehensive and thorough search is conducted and findings reported to the responsible officer	Naide	28/2/15
.1	Carry out a stowaway search	lee	6/2/15		lee	28/2/15

SECTION 9 TASK SUMMARY CHART

The purpose of the summary chart is to provide you, your company and your ships' officers with a guide and continuous check on the numbers of tasks or duties listed in Section 7 that you have completed, and those that remain outstanding. Tick off only those tasks which you have completed. In the charts below, the green boxes simply indicate the start of a new group of tasks or duties.

FUNCTION - Marine Engineering at the Operational Level

1. COMPETENCE - Maintain a safe engineering watch

1.1.1	1.1.2	1.1.3	1.1.4	1.2.1	1.2.2	1.2.3	1.2.4	1.2.5	1.2.6	1.2.7	1.2.8	1.2.9	1.2.10	1.2.11	1.2.12
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1.2.13	1.2.14	1.2.15	1.2.16	1.2.17	1.2.18	1.3.1	1.3.2	1.3.3	1.3.4	1.3.5	1.3.6	1.3.7	1.3.8	1.3.9	1.3.10
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1.4.1	1.4.2	1.4.3	1.4.4	1.4.5	1.5.1	1.5.2	1.5.3	1.5.4	1.5.5	1.5.6	1.6.1	1.6.2	1.6.3	1.6.4	1.6.5
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1.6.6															
✓															

2. COMPETENCE - Use English in written and oral form

2.1.1	2.1.2	2.2.1	2.2.2	2.2.3	2.2.4	2.2.5
✓	✓	✓	✓	✓	✓	✓

3. COMPETENCE - Use internal communication systems

3.1.1	3.1.2	3.1.3	3.1.4	3.1.5	3.1.6
✓	✓	✓	✓	✓	✓

4. COMPETENCE - Operate main and auxiliary machinery and associated control systems

4.1.1	4.1.2	4.1.3	4.1.4	4.1.5	4.1.6	4.1.7	4.2.1	4.2.2	4.2.3	4.2.4	4.2.5	4.2.6	4.2.7	4.2.8	4.2.9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.2.10	4.2.11	4.2.12	4.2.13	4.2.14	4.2.15	4.2.16	4.2.17	4.2.18	4.2.19	4.2.20	4.2.21	4.2.22	4.2.23	4.2.24	4.2.25
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.2.26	4.2.27	4.2.28	4.2.29	4.2.30	4.2.31	4.2.32	4.2.33	4.2.34	4.2.35	4.2.36	4.2.37	4.2.38	4.2.39	4.2.40	4.2.41
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.2.42	4.2.43	4.2.44													
✓	✓	✓													

5. COMPETENCE - Operate fuel, lubrication, ballast and other pumping systems and associated control systems

5.1.1	5.1.2	5.1.3	5.1.4	5.1.5	5.1.6	5.1.7	5.1.8	5.1.9	5.1.10	5.1.11	5.1.12	5.1.13	5.2.1	5.2.2	5.2.3
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.2.4	5.2.5	5.2.6	5.2.7	5.2.8	5.2.9	5.2.10	5.2.11	5.2.12	5.2.13	5.2.14	5.2.15	5.2.16	5.2.17		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

FUNCTION - Electrical, Electronic and Control Engineering at the Operational Level

6. COMPETENCE - Operate electrical, electronic and control systems

6.1.1	6.1.2	6.1.3	6.1.4	6.1.5	6.1.6	6.2.1	6.2.2	6.2.3	6.2.4	6.2.5	6.2.6	6.2.7	6.2.8	6.2.9	6.3.1
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.3.2	6.3.3	6.3.4	6.4.1	6.4.2	6.4.3	6.4.4	6.5.1	6.5.2	6.5.3	6.5.4	6.6.1	6.6.2	6.6.3	6.6.4	6.6.5
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.7.1	6.7.2	6.7.3	6.7.4	6.8.1	6.8.2	6.8.3	6.8.4	6.8.5	6.8.6	6.8.7	6.8.8	6.8.9	6.9.1	6.9.2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

9. COMPETENCE - Maintenance and repair of shipboard machinery and equipment

9.1.1	9.1.2	9.1.3	9.1.4	9.1.5	9.1.6	9.1.7	9.1.8	9.2.1	9.2.2	9.2.3	9.2.4	9.2.5	9.2.6	9.2.7	9.2.8
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.2.9	9.2.10	9.2.11	9.2.12	9.3.1	9.3.2	9.3.3	9.3.4	9.3.5	9.3.6	9.3.7	9.3.8	9.3.9	9.3.10	9.3.11	9.3.12
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.3.13	9.3.14	9.3.15	9.3.16	9.3.17	9.3.18	9.3.19	9.3.20	9.3.21	9.3.22	9.3.23	9.3.24	9.3.25	9.3.26	9.3.27	9.3.28
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.4.1	9.4.2	9.4.3	9.4.4	9.4.5	9.4.6	9.4.7	9.4.8	9.4.9	9.4.10	9.4.11	9.4.12	9.4.13	9.4.14	9.4.15	9.4.16
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.4.17	9.4.18	9.4.19	9.4.20	9.4.21	9.4.22	9.5.1	9.5.2	9.5.3	9.5.4	9.5.5	9.5.6	9.5.7	9.5.8	9.5.9	9.5.10
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.5.11	9.6.1	9.6.2	9.6.3	9.6.4	9.6.5	9.6.6	9.6.7	9.6.8	9.6.9	9.6.10	9.6.11	9.6.12	9.6.13	9.6.14	9.6.15
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.6.16	9.6.17	9.6.18	9.6.19	9.6.20	9.6.21	9.6.22	9.6.23	9.6.24	9.7.1	9.7.2	9.7.3	9.7.4	9.7.5	9.7.6	9.7.7
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.7.8	9.7.9														
✓	✓														

FUNCTION - Controlling the Operation of the Ship and Care for Persons On Board at the Operational Level

10. COMPETENCE - Application of leadership and teamworking skills

10.1.1	10.1.2	10.1.3	10.1.4	10.1.5	10.1.6	10.1.7	10.2.1	10.2.2	10.2.3	10.2.4	10.2.5
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

11. COMPETENCE - Ensure compliance with pollution prevention requirements

11.1.1	11.1.2	11.1.3	11.1.4	11.1.5	11.1.6	11.1.7	11.1.8	11.1.9	11.1.10	11.1.11	11.2.1	11.2.2	11.2.3	11.2.4	11.3.1
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11.3.2	11.4.1	11.4.2	11.5.1	11.5.2	11.6.1	11.6.2	11.6.3	11.6.4	11.6.5						
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						

12. COMPETENCE - Maintain seaworthiness of the ship

12.1.1	12.1.2	12.1.3	12.1.4	12.1.5	12.1.6	12.1.7	12.1.8	12.1.9	12.1.10	12.1.11	12.1.12	12.2.1	12.3.1	12.3.2
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

13. COMPETENCE - Prevent, control and fight fires on board

13.1.1	13.1.2	13.1.3	13.1.4	13.1.5	13.2.1	13.2.2	13.3.1	13.3.2	13.4.1	13.4.2	13.4.3	13.4.4	13.4.5	13.4.6	13.4.7
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13.4.8	13.4.9	13.4.10	13.4.11	13.5.1	13.5.2	13.5.3	13.5.4	13.5.5	13.5.6	13.6.1	13.6.2	13.6.3			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			

14. COMPETENCE - Operate life-saving appliances

14.1.1	14.1.2	14.1.3	14.1.4	14.1.5	14.1.6	14.1.7	14.1.8	14.1.9	14.2.1	14.2.2	14.2.3	14.2.4	14.2.5	14.2.6	14.2.7
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14.2.8	14.3.1	14.4.1	14.5.1	14.5.2	14.5.3	14.5.4	14.5.5	14.5.6	14.5.7	14.5.8	14.5.9	14.5.10	14.5.11	14.5.12	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

15. COMPETENCE - Apply medical first aid on board ship

15.1.1	15.1.2	15.1.3	15.1.4	15.2.1	15.2.2	15.3.1	15.3.2	15.3.3	15.3.4	15.3.5
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

16. COMPETENCE - Monitor compliance with legislative requirements

16.1.1	16.1.2	16.1.3	16.1.4	16.1.5	16.2.1	16.2.2	16.2.3	16.2.4	16.3.1
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

NB The STCW competence 'Contribute to the safety of personnel and ship' has been incorporated into competences 12-16