

JOB SPECIFICATIONS, TASK LISTS AND TRAINING OBJECTIVES FOR LEMR ' s

S. NO.	Job Specification	Task List	Traning Objectives	SOK
1.	2.	3.	4.	5.
3.	To assist senior Radio sailors in carrying out SS PPM of equipment at 1.	3.1 As for 1.1. To 1.3. 3.2 To assist in the following in regard to equipment at 3 :- (a) Operation of equipment (b) Implementation of E2/ EMAPS sytem of PPM (c) Removal and reassembly of components and assemblies (d) Testing of equipment.	3.1.1. As for 1.1.1. To 1.3.2.	
4.	To assist senior Radio sailors in carrying out SS repairs to equipment at 1.	4.1 As for 1.1. To 1.3. 4.2 To assist in the following in regard to equipment at 3 :- (a) Identification of components to be replaced. (b) Testing of components being replaced. (c) Component Assembly.	4.1.1. As for 1.1.1. To 1.3.2. 4.2.1. As for 3.2.1. To 3.2.2. 4.2.2. Working knowledge of technology as applied to equipment at 3.	B
5.	To carrying out watch keeping duties in W/t Stations (Cat A).	5.1 To operate shore W/T transmitter and remote it to COMCEN.	5.1.1. Knowledge of remoting arrangements. 5.1.2. Knowledge of signal communication organisation. 5.1.3. Technical details of shore based W/T equipment. 5.1.4. Knowledge of effect of tuning controls on circuit operation.	B B B
6.	To operate and regulate converted and emergency supplies for W/T and Radar equipment.	6.1 To test and regulate output of conversion machinery. 6.2 To test and regulate emergency supplies.	6.1.1. Knowledge of converted supply arrangements. 6.1.2. Knowledge of starting and procedures. 6.1.3. Knowledge of functioning of controls for regulation of output supplies. 6.2.1 To start and stop emergency generator. 6.2.2. To check distribution of emergency supplies.	C B C B C
7.	To carry out duties of ' R ' section storekeeper.	7.1 To survey and demand stores. 7.2 To maintain records.	7.1.1. To identify and categories stores. 7.1.2. Knowledge of stores organisation at Bombay and Visakhapatnam. 7.1.3. Knowledge of survey and demand procedures. 7.2.1 Knowledge of PLLs, ' E ' Lists, ' B ' lists, zip stores. 7.2.2. To render returns.	C C C C C
8.	To assist senior Radio sailors in the refit of a ship.	8.1 To assist in the preparation of a ships for refit.	8.1.1. To assist in pre-refit trials. 8.1.2. To assist in preparation of defect list	C C

JOB SPECIFICATIONS, TASK LISTS AND TRAINING OBJECTIVES FOR LEMR ' s

S. NO.	Job Specification	Task List	Traning Objectives	SOK
1.	2.	3.	4.	5.
		8.2 To assist in carrying out a refit.	8.2.1. Knowledge of Dockyard organisation and centres associated with ' L ' department.	C
			8.2.2. Knowledge of procedures associated with landing and accepting equipment at various centres.	C
			8.2.3. To maintain refit records.	C
			8.2.4. To assist in carrying out SS tests on equipment repaired Dockyard.	C
			8.2.5. To assist in HATs or ' R ' equipment.	C
			8.2.6. To assist in SATs of 'R ' equipment	C
9.	To assist senior sailors in divisional duties	9.1 To assist in processing request.	9.1.1. Knowledge of advacnement regulations. 9.1.2. Knowledge of leave regulations. 9.1.3. Knowledge of service benefits.	
		9.2 To assist in enforcing discipline.	9.2.1. Knowledge of discipline regulations.	
10.	* To take charge of and to work in parties dealing with minor fires or work in damage control situations.			
11.	* To be proficient in squad and rifle drill and take charge of a squad in physical traning.			
12.	* To perform special designated duties.			
13.	* To form part of an armed party ashore or baording party and be proficient in the use of 7.62 mm rifle.			

JOB SPECIFICATIONS, TASK LISTS AND TRAINING OBJECTIVES FOR APP (P)/ MECH(P) /NE ARTIFICERS (P) UPTO EA3

S. NO.	Job Specification	Task List	Training Objectives	SOK
1.	2.	3.	4.	5.
1.	<p>To carry out operational function on following equipments:-</p> <ul style="list-style-type: none"> (a) Missiles and missile Launchers. (b) Guns and gun mountings. (c) Fire Control systems both A/A & A/S) (d) Gyro & Nav aids (e) Remote Control Systems of Engine (f) Instrumentation (g) Internal Communication Systems (h) Heavy Electrical Machinery and Conversion Machinery (j) Rockets and Rocket Launchers (k) Turbine Control Systems. (l) Hull outfits (m) Torpedoes and Torpedo Tubes (n) Lifts and Cranes (p) Mines and Mines Sweeping equipment. (q) Degaussing equipments (r) Telephone Exchange (s) Digital Computer (t) ICCP & Auxiliary Controls (u) Power generation and supply distribution system. (v) Helicopter/ Aircraft landig arresting systems. (w) Auto plotter/SPL plotting, ECDIS (x) Night vision Binoculars 	<p>1.1 To carry out following operations on the equipment at 1.</p> <ul style="list-style-type: none"> (a) To carry out missile loading operation. (b) To carry out visual inspection prior to loading the missile in hangers (c) Carry out range alignment of missile before loading. (d) Switching on/off of all equipments and systems at SI,1, (e) Operation of system/equipment at SI. 1. <p>1.2 To identify and use common hand tools and appliances.</p> <p>1.3 To be able to carry out various checks using common test equipments.</p>	<p>1.1.1. Knowledge of Maths. 1.1.2. Knowledge of Physics. 1.1.3. Knowledge of Electricity & Magnetism. 1.1.4. Knowledge of Electronics 1.1.5. Knowledge of Electrical Measurements. 1.1.6. Working knowledge of Electrical Technology 1.1.7. Working knowledge of Power Electronics 1.1.8. Working Knowledge Digital Technology. 1.1.9. Working knowledge of control systems and Control Engg. 1.1.10 Working Knowledge of Basic Weapons. 1.1.11. Knowledge of Missile Technology 1.1.12. Knowledge of Ordnance Engg. 1.1.13 Knowledge of Fluid Engg. 1.1.14. Working knowledge of instruments. 1.1.15. Knowledge of Microprocessor Technology 1.1.17. Working knowledge of AC/DC Machines. 1.1.18. Working knowledge of onboard PGD 1.1.19. Working knowledge of gyro & magnetic compass theory</p> <p>1.2.1. To use all types of hand tools. 1.2.2. To use the following appliances:- (a) Vacuum Cleaner (b) Grease Gun (c) Portable Drill</p> <p>1.3.1. Knowledge of principles and operation of following:- (a) CRETE (b) Transistor & IC Tester (c) Frequency counters (d) Oscilloscopes (e) Pulse analyser/spectrum analyser</p>	<p>A A A B A A B C C B C</p>

JOB SPECIFICATIONS, TASK LISTS AND TRAINING OBJECTIVES FOR APP (P)/ MECH(P) /NE ARTIFICERS (P) UPTO EA3

S. NO.	Job Specification	Task List	Traning Objectives	SOK
1.	2.	3.	4.	5.
			(g) Level recorders/ X-Y recorders	B
		1.3.2.	Practical knowledge of continuity check of an electrical circuit	A
		1.3.3.	Practical knowledge of checking voltage, current and resistance of a circuit.	A
		1.3.4.	Practical knowledge of frequency measurement.	A
		1.3.5.	Practical knowledge of checking the parameters of an electronic tube/valve	
		1.4	To be able to read,interpret and identify various components/sub components in simple Electrical and mechanical drawings.	
		(a)	To identify various electrical and electronics components of an electrical drawing.	
		(b)	To trace out input/output flow of drawing.	
		1.4.1.	Knowledge of common symbols used for electrical/electronic components in a drawing.	A
		1.4.2.	Knowledge of drawing simple electrical flow diagram	B
		1.4.3.	Knowledge of drawing simple mechanical flow diagram.	A
		1.4.4.	Working knowledge of retrieving electrical and mechanical data from a simple drawing.	B
		1.5	To maintain records.	
		1.5.1.	Precautions to be observed while carrying out PPM routines.	B
		1.5.2.	Working knowledge /theory of operation of all equipments/systems listed at SL, 1.	B
		1.5.3.	Knowledge of PPM system used on board.	B
		1.5.4.	Knowledge of kalamazoo, E-map,D78, log books etc.,	B
		1.5.5.	Knowledge of Periodic returns sent to the Administrative authorities.	
2.	To be able to carry out fault finding on all equipments/ Systems listed at Sl.1	2.1	To carry out circuit tracing as per drawing.	
		2.1.1.	Technical details of working of all equipments/ systems at Sl. 3.	B
		2.2.	To diagnose the possible faults/ defects depending on the malfunctioning of a subunit/unit of a system/equipment at Sl.1.	
		2.2.1.	Detailed knowledge of equipment performance and characteristics.	B
		2.2.2.	To identify and locate defective components.	B
		2.2.3.	To eliminate cause of fault	B
		2.3	To replace defective component and repair faults.	
		2.3.1.	Working knowledge of workshop practices.	B
		2.3.2.	Working knowledge of use of workshop equipment.	B
		2.3.3.	Practical knowledge of component soldering	
		2.3.4.	Practical knowledge of Lug soldering.	B
		2.3.5.	Practical knowledge of Turning	B
		2.3.6.	Practical Knowledge of grinding	B
		2.3.7.	Practical knowledge of fitting	B
		2.3.8.	Knowledge of wiring practices.	B

JOB SPECIFICATIONS, TASK LISTS AND TRAINING OBJECTIVES FOR APP (P)/ MECH(P) /NE ARTIFICERS (P) UPTO EA3

S. NO.	Job Specification	Task List	Traning Objectives	SOK
1.	2.	3.	4.	5.
3.	To assist a Senior Artificer sailor in setting to work and testing and tuning the equipments/systems at Sl. 1	3.1 As at Sl.1.1 to 1.5 3.2 Testing of Oil samples. 3.3 Recording of performance/characteristics of system/equipments at Sl. 3. 3.4 Setting up/fitting of various test equipments for testing & tuning 3.5 Preparing the system for T & T 3.6 Carry out parameter checks. 3.7 Carry out Testing & tuning.	3.1.1. Working and Technical knowledge of test equipments required for testing and tuning. 3.1.2. Working knowledge of principles of T & T and setting to work. 3.1.3. Working knowledge of various tests carried out on the systems/equipments at Sl.3.	B B B
4.	To assist the Senior Artificer sailor in the refit of a ship	4.1 To present systems/equipments at Sl.1 for pre-refit trials 4.2 To forward defect lists. 4.3 To carry out post-refit trials. 4.4. To carry out Harbour acceptance trials. 4.5 To carry out sea accpetance trials. 4.6 To carry out demand & survey of components/subunits/units of systems/equipments.	4.1.1. Knowledge of Refits and refit cycle,SMP AMP, docking and drydocking 4.1.2. Knowledge of various organisations at dockyards and other organisations associated with refit of a ship 4.1.3. Knowledge of demand and survey procedures. 4.1.4. Knowledge of perparing and forwrding of defect lists/ AWRFs. 4.1.5. Knowledge of landing sub units/units equipments at dockyard and procedure to receive them to back to ship.	B A A B
5.	To be able to carry out fire fighting independently and take charge of elctrical damage control situations under guidance	5.1 To fight all kinds of fire that may take place on board 5.2 To act accordingly as required in case of compartment flooding or other damage control requirements.	5.1.1. Complete knowledge of ships damage control organisation 5.1.2. Knowledgfe of NBCD organisation 5.1.3. Knowledge of action & defence stations emergency stations, Boarding & landing Party. RAS, Amunitioning & Deamunitioning	B B B
6.	To be perfeat at;- (a) Squad drill (b) Rifle drill (c) Divisional duties of Pos/CPOs.	6.1 Perfprm squad/rifle drills perfectly 6.2 To carry out divisional PO/CPOs duty.	6.1.1. To have brief knowledge of Personnel Management. 6.1.2. To have practices of Squad/Rifle drills.	B B

JOB SPECIFICATIONS, TASK LISTS AND TRAINING OBJECTIVES FOR APP (R) / MECH(I)

S. NO.	Job Specification	Task List	
1.	2.	3.	
1.	To carry out maintenance on the following equipments:- (a) Communication equipments (b) Navigational aids (c) Navigational Radars (d) Warning Radars (e) Fire Control Radars (f) Secondary Radars (g) Display systems & plotting (h) Sensors associated with Missiles and Torpedos (j) EW Equipmentss (k) Echo Sounders (l) Sonar Equipments (m) ASW Computers (n) AIO & CAIO Systems (p) Radiation Moinitoring equipments. (q) Interfacing equipments (r) Data Bus systems (s) Data Link systems (t) MB/SRE/Intercom & wireless internal communication system (u) CCS MK III (v) Gyro, RLG STD 20 M (w) EM log	1.1 To carry out following operation on the equipments at 1. (a) Identifying unit/sub units and diferent controls (b) Switching On/Off. (c) Working principles (d) Operating (e) Tuning (f) Parameter checks	1.1.1. 1.1.2. 1.1.3. 1.1.4. 1.1.5. 1.1.6. 1.1.7. 1.1.8. 1.1.9. 1.1.10. 1.1.11. 1.1.12. 1.1.13. 1.1.14. 1.1.15. 1.1.16. 1.1.17. 1.1.18.
		1.2 To identify and use common hand tools and appliances.	1.2.1. 1.2.2.
		1.3 To identify and use common test equipments	1.3.1.
			1.3.2.

1.4 To read and interpret "As fitted drawings" wiring diagrams and Mechanical diagrams.

1.4.1.

1.4.2.

R)/NE ARTIFICERS (R) UPTO EA3

Traning Objectives

SOK

4.

5.

Knowledge of English and Hindi.	B
Knowledge of Maths, Physics and Mechanics	B
Knowledge of Electrical Technology	B
Knowledge of application of electronics	C
Knowledge of Control Engineering.	C
Knowledge of Communication Theory.	B
Knowledge of Digital Technology	C
Knowledge of Radio & Radar Engineering.	B
Knowledge of Sonar Theory.	B
Knowledge of Computer and Microprocessor	B
Knowledge of Signal Processing.	B
Knowledge of Microwave Devices	B
Knowledge of Good Engineering practices.	B
Knowledge of operating principles of equipment at 1.	B
Knowledge of performance limitation of equipments at 1.	B
Observations of Safety precaution when working on equipments.	A
Knowledge of the built in test facilities	B
Knowledge of optronics.	B
To use all types of hand tools	A
To use the following appliances:-	A
(a) Vacuum Cleaner	
(b) Grease Gun	
(c) Portable Drill	
Knowledge of principles and operation of the following:-	
(a) CRETE	B
(b) Transistor & IC Tester	C
(c) Frequency counters	C
(d) Oscilloscopes	B
(e) Pulse analyser/spectrum analyser	C
(f) PCB Tester.	C
(g) Level recorders /X-Y recorders	B
Measurement of component and equipment parameters using equipment at 1.3.1.	B

To interpret techniques/conventions used
in electrical and Mechanical drawings.

B

To retrieve electrical/mechanical data from
a drawing.

B

JOB SPECIFICATIONS, TASK LISTS AND TRAINING OBJECTIVES FOR APP (P)/ MECH(R)/NE AR

S. NO.	Job Specification	Task List		
1.	2.	3.		
			1.4.3.	To follow S
			1.4.4.	To follow 1!
		1.5 To maintain records.	1.5.1.	Knowledge
			1.5.2.	Knowledge
			1.5.3.	Knowledge
2.	To carry out SS repairs to equipment at 1.	2.1 As at 1.1. To 1.5.	2.1.1.	As at 1.1.1
		2.2 To diagnose fault.	2.2.1.	Technical c at 1.
			2.2.2.	Detailed kn and charac
			2.2.3.	To identify ;
			2.2.4.	To eliminat
		2.3 To replace defective component and repair faults.	2.3.1.	To remove
			2.3.2.	To test con
			2.3.3.	To carry ou
			2.3.4.	To carry ou
		2.4 To survey & demand stores.	2.4.1.	Knowledge
			2.4.2.	Knowledge
			2.4.3.	Knowledge
3.	To assist a Senior Artificer sailor in setting to work and testing and tuning the equipments/systems at . 1	3.1 As at 1.1 to 1.5	3.1.1.	As at 1.1.1.
		3.2 To assist in following in regard to equipment at 3. (a) Preparing system. (b) Parameter checks. (c) Testing and tuning	3.2.1.	Knowledge setting to w
			3.2.2.	Knowledge and test eq
4.	To assist a Senior artificer sailor in the refit of a ship.	4.1 To assist in preparation of Defect list.	4.1.1.	Knowledge cycles
			4.1.2.	Knowledge thereof
			4.1.3.	Knowledge
		4.2 To land and collect SSRR items in Dockyard.	4.2.1.	Knowledge
			4.2.2.	Knowledge various pro
		4.3 To maintain records.	4.3.1.	To maintair out and rec

4.3.2. and their EI
To update i
during & af

STAFFICERS (R) UPTO EA3

Traning Objectives	SOK
4.	5.
hips ' As fitted ' drawing.	B
950 system of making.	B
of equipment performed records.	B
of E2 System of PPM/EMAPS	B
of maintenance of Master records	B
to 1.5.3.	B
details of working of equipment	B
nowledge of euqipment performacne teristics.	C
and locate defective components.	C
e cause of faults.	C
the defective components.	B
omponent being replaced	B
it component assembly.	C
it performance checks.	C
of types & categories of stores	B
of stores organisation	C
of survey/demand procedures.	B
. To 1.5.3.	B
of the principles involved in ork and testing and tuning.	C
of use of special publication uipment required.	C
of type of refit and refit	C
of defect list and procedures	C
of refit responisibilities.	C
of ND(B) and ND(V) organisation,	C
of locations and functions of duction centres in dockyard.	B
records of items lande/ taken eived to and from dockyard	B

DC.
refit progress and master records
ter repairs/routines.

C

JOB SPECIFICATIONS, TASK LISTS AND TRAINING OBJECTIVES FOR APP (I

S. NO.	Job Specification	Task List	
1.	2.	3.	
		4.4 To assist in pre and post refit trials, ships acceptance trials.	4.4.1. 4.4.2. 4.4.3. 4.4.4.
5.	To be able to carry out fire fighting independently and take charge of electrical damage control situations under guidance	5.1 To fight all kinds of fire that may take place on board	5.1.1. 5.1.2. 5.1.3.
6	To be perfect at;- (a) Squad drill (b) Rifle drill (c) Divisional duties of POs/CPOs.	6.1 Perform squad/rifle drills perfectly	6.1.1.
		6.2 To carry out divisional PO/CPOs duty.	6.1.2.

**P)/ MECH(R)/NE ARTIFICERS (R) UPTO EA3
Traning Objectives**

SOK

4.

Knowledge of pre-refit procedures.
Knowledge of HATs procedures.
Knowledge of SATs procedures.
Knowledge of procedures for acceptance
of ships electrical equipment of new ships.

5.

C
C
C
C

Complete knowledge of ships damage control
organisation
Knowledge of NBCD organisation
Knowledge of action & defence stations
emergency stations, Boarding & landing Party.
RAS, Amunitioning & Deamunitioning

B
B
B

To have brief knowledge of Personnel
Management.

B

To have practices of Squad/Rifle drills.

B