

## CC EX 9 – RADIO PROCEDURES & PROTOCOLS:

**Task & purpose:** To set up and maintain the radio equipment in order to monitor, receive and transmit radio traffic according to standing operational procedures.

**TASK 1. - IDENTIFY THE RADIO EQUIPMENT SHOWN BELOW.**  
**The trainee names & describes the operational use /limitations of each radio to the trainer.**

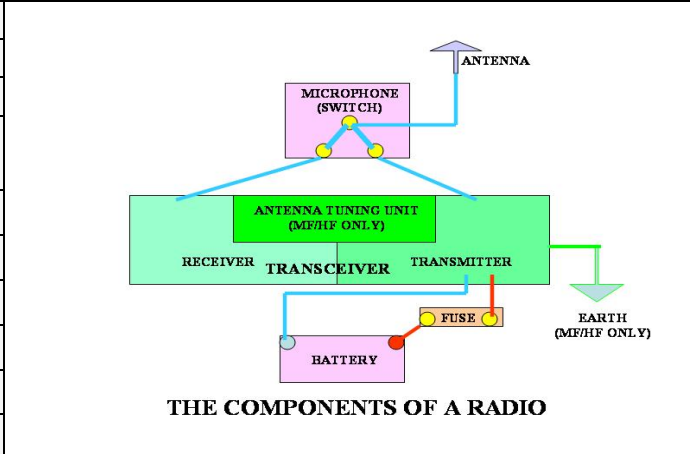


**TASK 2. -TURN ON AND TUNE FOR OPTIMUM RECEPTION & TRANSMISSION.**  
**After turning the battery source on, raising the antenna and powering up each radio, the trainee will:**

- 27MHz-**Selects Ch90, checks ISC, TX, RX, DW status, checks volume level squelch off, sets squelch on correctly, readjusts as set warms.
  - VHF & H/H VHF-**Selects Ch73, checks INT/USA/CDA, HI/LO, DW, SCAN, TX, RX status, checks volume level squelch off, sets squelch on correctly, readjusts as set warms.
  - POLICE-**Selects Ch4, checks RX status, checks volume level.
  - INTERCOM-**Selects IC1, checks volume level and performs test of hail & horn modes.
  - MF/HF-**Selects 2182 KHz, checks AM status, checks volume level mute off, sets mute on correctly, readjusts as set warms.
- The trainee transmits/receives a radio signal strength request call & message on one of the above.**

**TASK 3. –DESCRIBE THE SYMPTOMS & CURE OF COMMON FAULTS.**  
**The trainee solves the problems by describing Cause & Cure with reference to the drawing below:**

- |  |
|--|
| No RX, no TX, no dial lights, the radio appears dead.  |
| Good RX but all dial lights go dim on pressing for TX.   |
| Dial lights flashing on & off, RX & TX intermittent.   |
| Radio is OK for 10 minutes & then goes dead. Starts a few minutes later & repeats the problem. |
| Electric shocks when MF/HF is touched.   |
| Loud interference noise on all stations.   |
| TX good but no RX from any stations.   |
| Good RX from close stations but no RX from distant.  |
| No RX, no TX, dial lights bright, the radio appears OK.  |
| Intermittent RX & TX but dial lights bright & constant.  |



**TASK 4. –SIMULATE A DISTRESS CALL & MESSAGE.**

- The trainee simulates the use and testing of emergency signalling equipment.
- The trainee transmits a simulated radiotelephone distress call & message.



**ALL RADIO COMMUNICATION USES THE FOLLOWING PROTOCOLS**

Monitor for break in traffic-Transmit call-**“VMR Port Macquarie (x1) this is name of vess. (x1) Over”**

Monitor for reply- Transmit message-**“VMR Port Macquarie Name of vessel is underway with x POB whose crew numbers are 1, 2 & 3. Advise of additional detail &/or next sked. Over”**

A radio watch must be kept. Instruction to “Secure” police radios should be observed.

**TASK 5. –TRAINEE COMMUNICATES BY RADIO FROM BOATSHED.**

VHF preferred Ch 73, station name **“Rescue shed”**, Call at arrival & exit from shed, fax message will follow.

**TASK 6. – TRAINEE COMMUNICATES BY RADIO FROM PORTABLE OR RESCUE DUCK .**

VHF preferred Ch 73, station name **“Rescue portable”**, Call at log on & log off.

VHF preferred Ch 73, station name **“Rescue duck”**, Call at log on, twenty minute skeds to VMR & at log off. Additional call sign for police traffic **“VRA 323”**.



VHF Ch 12 may be nominated for training purposes only.

**TASK 7. – TRAINEE COMMUNICATES USING RADIOS OF RESCUE RIB .**

VHF preferred Ch 73, station name **“Rescue RIB”**, Call at log on, thirty minute skeds to VMR & at log off.

Additional call sign for police traffic **“VRA 322”**.

VHF Ch 12 may be nominated for training purposes only.



**TASK 8. – TRAINEE COMMUNICATES USING RADIO EQUIPMENT OF CR1 .**

VHF preferred Ch 73, station name **“Crown Rescue One”**, Call at log on, thirty minute skeds to VMR & at log off.

Additional call sign for police traffic **“VR A 321”**

VHF Ch 12 may be nominated for training purposes only.



**Transmit and receive information by marine radio or radiotelephone (found in Training logbooks)**

ASSESSMENT TASK TDMME501A	RESULT	COMMENT
Tuning and operating the radio equipment		
Sending and receiving routine traffic		
Sending and receiving simulated distress traffic		
Maintenance and fault finding		

Assessment was conducted by observation / questioning to the requirement of the Training Package TDM01.

Assessor Name.....Assessor Signs.....

Trainee Signs.....

**Training resources:**

Workbook- “AMC Marine Radio Operators Handbook”.

Presentation - CD Index>C.C. Lessons> Trans. and receive info. by mar. radio/telephone.

Exercises - CD Index>C.C. Lessons> Trans. and receive info. by mar. radio/telephone.

Interactive - CD Index>C.C. Lessons> Trans. and rec. by mar. radio/telephone> Simrad.