

**CR1 EX 11– WHEELHOUSE EQUIPMENT** (SUPERVISES SAFE NAVIGATION GPS):

- Prerequisites:** 1. The trainee is competent at radio protocols CC Ex 9.  
 2. The trainee is competent at chartwork SARCC Nav Ex Into-Ex 6.

**Purpose:** To direct the turn on, tune & operate the vessel’s navigational aids.

**THE TRAINEE SKIPPER DESCRIBES THE CONTROLS & WARNING SYSTEMS OF CR1.**



**THE TRAINEE SKIPPER DELEGATES & MONITORS THE GPS/SONAR TASKS**

<b>SET UP TASK</b>	<b>ACTIVITY TASK</b>
Turn on & set backlight level.	The trainee delegates a sounding watch in the river, on the bar and approaching a shoal coastline.
Select Nav, Sonar, Steer, Map & window as required.	
Interpret & communicate displayed soundings.	
Describe displayed info. of Nav and Steer screen.	The trainee selects any Saved Wpt and delegates a watch to navigate to destination.
Select a saved waypoint & initiate go to waypoint.	
Communicate advice of displayed steer screen.	
Cancel selected navigation route.	The trainee inputs: <b>31° 26'.400 S    152° 56'.340 E</b> <b>31° 25'.750 S    152° 56'.150 E</b> <b>31° 25'.430 S    152° 57'.010 E</b> and delegates a watch to navigate to destination.
Enter a quick save, MOB, & delete.	
Enter a lat/long & initiate a go to waypoint route.	
Describe errors & precautions of using GPS navigation.	

**THE TRAINEE SKIPPER DESCRIBES THE CONTROLS OF CR1 RADAR.**



**THE TRAINEE SKIPPER DELEGATES & MONITORS THE RADAR TASKS**

Describe personal safety precautions.	Warning or signage before transmitting.
Turn on & tune in.	A-Z method- Brilliance, gain, heading marker, range scanning, tuning.
Describe proper use of A/C Sea Clutter & FTC Rain.	Progressive with A/C, over entire PPI with FTC.
Access Range Rings, IR, Echo stretch, Shift, VRM, EBL.	Real.
Identify coastal feature and advise of its range / bearing.	Real or simulated.
Plot position and describe its reliability.	Real or simulated.
Identify vessel targets and their range / bearing.	Real or simulated.
Determine risk of collision by EBL & range.	Real or simulated.
Conduct flotilla of vessels search pattern by range ring or VRM vessel separation.	Practical activity.

**Training resources:**

- Workbooks- "Boat crew Plan & Conduct an inshore Passage" - "Radar".
- Presentation- CD Index>CR1 Lessons> Radar >"Radar trainer"
- Motor boat Simulator Exercises Starpath Simulator