Axe Yacht Club

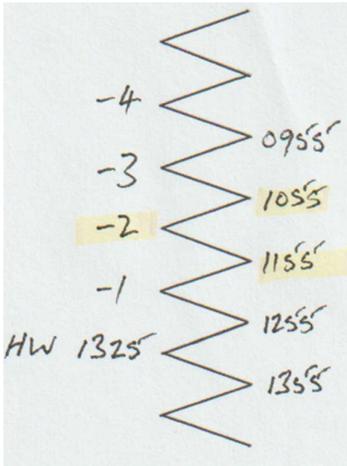**RYA Yachtmaster Shorebased Course**

Course to Steer – In Class Example

Worked Solution – Magnetic Variation taken as 6W
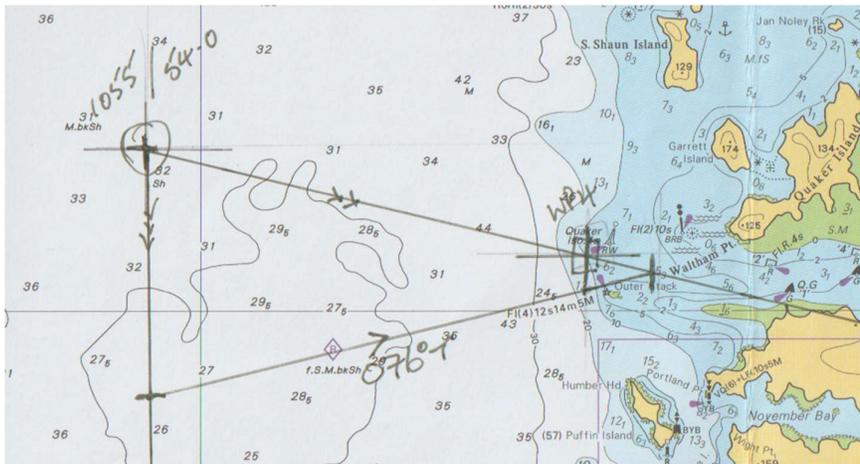
1. 28 May Victoria – HW 1125 UT 5.5m   LW 0509 UT 0.6m=> Range 4.9m Mean Spring Range therefore no need to interpolate.
2. HW at 1325SPDST
3. Tidal Hour   4. Tidal Stream

Tidal Diamond	Tidal Hour	Set (°T)	Spring Rate (knots)	Neap Rate (knots)	Range of Tide (m)	Interpolated or Extrapolated Rate (S) in knots	Duration in minutes (T)	Drift to use = S x (T/60) in nautical miles
K	+4	291	2.0	1.1	4.4	1.8	20	=1.8 x (20/60) = 0.6nm
R	-2	179	2.7	1.4	4.9	—	1hr	2.7nm.

5. Plot – CTS from chart = 076T

6.

T	V	M	D	C
076T	6W	082M		
L/W	-10	072M	-2E	070

7. Leeway Correction

082 – 10 = 072M

WIND

072M

082M

Expected leeway 10°
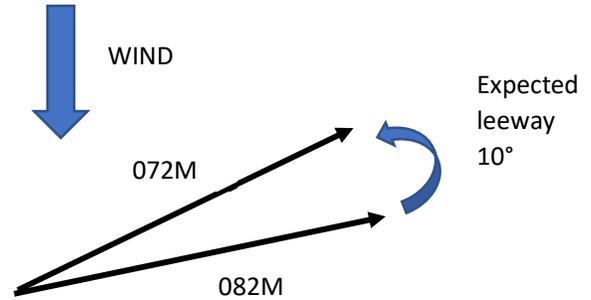
8. Speed over the ground (SOG)

SOG measured from the chart = 5.5 knots

SOG

DTR

9. Time to run to WP4

= (4.8 ÷ 5.5) x 60

= 52 mins

ETA = 1147 SPDST