

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)**

**HOME SCHOOLING SELF-STUDY WORKSHEET**

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| **SUBJECT** | Nautical Science | **GRADE** | 12 | **DATE** | 22/4/20 |
| **TOPIC** | SEAMANSHIP | **TERM 1**  **REVISION** | X | **TERM 2 CONTENT** | X |
| **TIME ALLOCATION** | 40min | **TIPS TO KEEP HEALTHY**  1. **WASH YOUR HANDS** thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.  2. **PRACTICE SOCIAL DISTANCING** – keep a distance of 1m away from other people.  3. **PRACTISE GOOD RESPIRATORY HYGIENE**: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.  4. **TRY NOT TO TOUCH YOUR FACE.** The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick.  5. **STAY AT HOME.** | | | |
| **INSTRUCTIONS** | This worksheet is to be completed in your MRTE exercise/activity book. |

**SECTION A SEAMANSHIP**

**QUESTION 4**

Your vessel is steering a course 075º (T) and at a reduced speed of 10 knots due to poor visibility of less than 1 000 m. You detect a Radar target astern which you have been plotting with the following bearings and ranges:

**Time Bearing Range**

**20:00 255° (T) 10,0 M**

**20:06 255° (T) 8,0 M**

**20:12 255° (T) 6,0 M**

4.1 Plot the target’s movements on the plotting sheet provided. (5)

4.2 Prepare a full target report. (10)

4.3 At 20:18 the same target is bearing 255º x 4,0 miles. What action would you take? (5)

[20]

**QUESTION 5**

5.1 What are the design features of a Ro-Ro ship? (5)

5.2 What is a Reefer vessel? (5)

[10]