

Hovercraft SO TV Channel – 2026

Due: 1/5/2026

Answer the questions with a DETAILED explanation. Make sure to verify the rules if not sure about correctness.

1. Explain how the distance score is applied and calculated.
2. List all the penalties you can acquire with **time score** calculations. Explain the 3' rule.
3. Explain how you can end up with **four runs**.
4. Why is **bonus time** not always a good decision? Explain.
5. What type of batteries are allowed or not allowed? How do you prove the battery is 12.0 V? How many batteries can you impound? Can you exchange batteries in between the runs?
6. Why must propellers/impellers be covered and how? How is the Rule 3c conducted.
7. If you need to decide, would you go with no-skirt or a flexible skirt? Name three types of skirts.
8. Explain the difference between rheostat and potentiometer. Are the switches mandatory or optional.
9. List the ways Ms. Emmos suggests controlling the speed.
10. Design rudders to direct the air from the fans.
11. BONUS:
 - Explain - Pilot lean -
 - What was Ms. Emmos response to the circular design of HV?