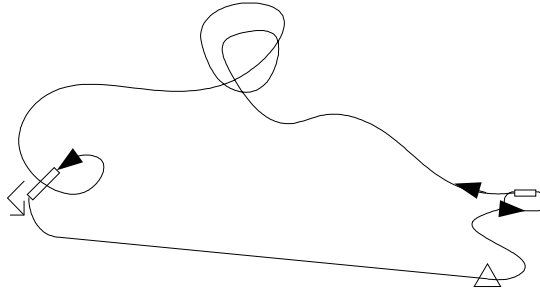


FLIGHT 4: AL and WL CLASSES (Task 6)

DURATION & SPEED

Objectives

Given a limited amount of fuel, competitors must stay airborne for as long as possible, leaving enough fuel for a precision touch-and-go followed by a fast leg flown at a speed to be predicted by the competitor



Summary

Competitors will be given:

- 2 gallons of fuel (solo) or 4 gallons of fuel (two-seater)
- the location of the precision touch-and-go: the Landing Deck
- the location of the gate at the end of the speed leg between SR1 and SR2 (see map)
- Before takeoff the competitor must:
 - a declaration sheet (attached), which must be turned into a marshal before takeoff

The task will start and finish with a Deck Takeoff and Deck Landing. After completing the landing the competitor will be required to enter a Quarantine area for fuel checking.

Safety

Since the task is to be flown to empty tanks, pilots must look out for other aircraft preparing to land engine off. A proper look-out must be kept at all times. An aircraft joining another in a thermal shall circle in the same direction as that established by the first regardless of height separation.

Scores

The following penalties will apply:

Takeoff deck penalty	20%
Landing deck penalty	20%
Breach of Quarantine	100%
Predicted ground speed error	5 points per second

FLIGHT 4: AL and WL CLASSES (Task 6)

The task score calculation will be:

$$\text{Pilot score} = \left(400 \times \frac{\text{tdp}}{\text{tdMax}}\right) + \left(400 \times \frac{\text{tsMin}}{\text{tsp}}\right) + (200 - t\Delta p)$$

Where:

tdp = the pilot's time achieved on the duration leg

tdMax = the longest time achieved on the duration leg by a scoring competitor

tsp = the pilot's time achieved on the speed leg

tsMin = the shortest time achieved on the speed leg by a scoring competitor

tΔp = the speed leg time error in excess of allowed 10 secs at 5 point/second (max 200)

FLIGHT 4: AL and WL CLASSES (Task 6)
PILOT DECLARATION SHEET

NAME: _____

GROUND SPEED: _____