

FLIGHT 3: PF and PL CLASSES (Task 5)

SPEED TRIANGLE AND OUT AND RETURN

Objective

With limited fuel, to fly around a circuit in the shortest possible time, return to the deck, and then, with the pilot's remaining fuel fly in a given direction as far as possible and return to the deck.

Description

Fuel quantity allowed: 6 liters

Part 1: Speed; The pilot take off time is noted. The pilot flies to one or more turnpoints and returns to the deck where he is timed.

Part 2: Distance; The pilot then flies along Interstate 65 to a point of pilot choice, and returns to the deck.

Special rules

- Land out before completing part 1: Score zero.
- Land out before completing part 2: Score zero for part 2.
- Failure to takeoff or land entirely in the deck: 20% penalty.
- Maximum time allowed: 3 hours

Scoring

$$\text{Pilot score} = \left(500 \times \frac{t_{\text{Min}}}{t_{\text{p}}} \right) + \left(500 \times \frac{d_{\text{p}}}{d_{\text{Max}}} \right)$$

Where:

t_{p} = the pilot's time,

t_{Min} = The best time (Part 1)

d_{p} = the pilot's distance

d_{Max} = the greatest distance (Part 2)

The following penalties will be applied:

Late return > 3 hours

5 points per second