

FLIGHT 1: AL and WL CLASSES

OVERVIEW

Begin with a Short Takeoff Over An Obstacle (Task 1), proceed immediately to the Pure Navigation task (Task 2), and complete a Deck Landing upon return to the airport.

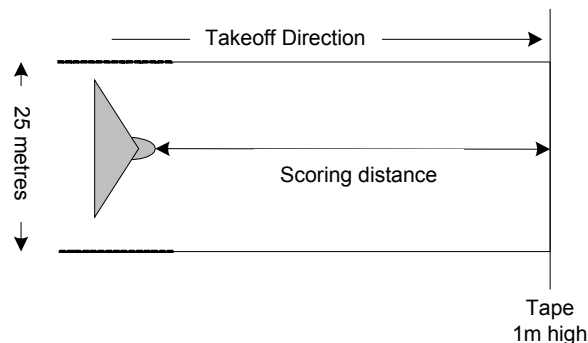
SHORT TAKEOFF OVER AN OBSTACLE

Objectives

The objective is for the aircraft to take off over and clear an obstacle, starting the takeoff run as close to the obstacle as possible.

Summary

This task simulates a short field takeoff over a hedge, the hedge being represented by a tape stretched across the runway 1 meter above the ground. The pilot may position his aircraft on the runway as close as he wishes to the tape. This distance will be measured from the furthest box in which the aircraft's wheels touch. The aircraft must then take off over the tape without breaking it.



Takeoff

The takeoff order will be specified at the task briefing. The pilot may position his aircraft as close to the tape as he wishes and must not take off until instructed to do so by the marshal. The form of signal to be used by the marshal for this purpose will be specified at the briefing.

Scoring

$$\text{Pilot Score} = (250 \times d_{\text{Min}} / d_{\text{P}})$$

Where:

dP = pilot's starting distance, measured from the obstacle and rounded down in 5-meter increments

dMin = minimum starting distance for the task

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The competitor will be scored zero if:

- The aircraft commences takeoff before stationary.
- The aircraft commences takeoff before instructed to do so by the marshal.
- The aircraft fails to fly over the tape.
- Any part of the aircraft breaks the tape.

PURE NAVIGATION

Objective

To fly a course between as many turn points as possible within 90 minutes and return to the deck.

Scoring

$$\text{Pilot score} = 1000 \times \frac{\text{NBp}}{\text{NBmax}}$$

Where:

NBp = The number of ground markers and/or turn points a pilot collects in the task

NBmax = The maximum number of markers and/or turn points collected in the task

The following penalties will apply:

Late return > 90 minutes but < 95 minutes

Late return >= 95 minutes

Landing outside the deck

5 points per second

Pilot scores 0 for the task

20%