

# EMC Task 15 - NAVIGATION WITH A PARTIALLY KNOWN TRACK 2.2a – ZIG ZAG TO OLD WARDEN

## Objective:

To fly along known tracks, and to then construct and fly subsequent legs of the track from information found. To fly the given and constructed track as accurately as possible, whilst keeping to pre declared groundspeed, and spotting the position of ground features from photos given

## Description:

**Starting procedure :** A, North departure

### Before flight, in Quarantine crews will be given:

Task map  
Declaration sheet  
Photo sheets

### Detail description:

Known track lines will consist of three lines. SP1 is the start of the first known track. Crews should fly this track until finding a photo feature marked as a turnpoint (the letters 'TP' will be in the upper right corner of the photo) . From this point they must construct and fly a straight line track to the start point of the second line (SP2),

From SP 2 fly the second known track line until another photo feature marked as a turnpoint is found. From this point construct and fly a straight line track to the start point of the third given line (SP3).

From SP3 fly the third known track line until another photo feature marked as a turnpoint is found. From this point construct and fly a straight line track to FP.

If the crew does not find a turnpoint feature, they should continue to the end of the known track line then fly directly to the SP of the next known track line

There will be timing/tracking gates at SP and FP and a number in unknown positions anywhere along the whole course. Timing for groundspeed will be measured against elapsed time from given SP time. No timing/tracking gates will be within 2km of a turnpoint

There will be photos of ground features for crews to identify the position of along the whole course. Photos to be used as turnpoints will be marked with their identification letter and , additionally 'TP' in the upper right corner.

After crossing FP crews must proceed directly to the airfield at Old warden following the given trackline from FP, and land using the procedure as briefed. After landing the crew must taxi as briefed or marshaled, to the designated post flight quarantine area. **Standard after landing Navigation task quarantine procedure will then apply.**

## Scoring:

Passing SP1 correctly = 100pts – 2points per second +/- from given time

Each timing/tracking gate passed correctly = 100 points – 2 points per second +/- from calculated time.

Each correctly identified photo feature marked within 3mm on official scoring map = 50 points. If greater than 3mm but less than 5mm = 0 points. If greater than 5mm = -50 points.

Competitor's score =  $Q/Q_{max} \times 1000$  where:

Q = Competitor's individual accumulated score

$Q_{max}$  = best individual accumulated score in task/class

**Penalties as per generic navigation task penalties.**



