



LEVEL 5 | CONFINED SCORABLE SCENARIOS

Perform the designated flight paths to triangulate around dual bucket rails in various orientations. Align with perpendicular buckets then angled buckets. Use zoom and exposure control to identify targets inside the buckets.

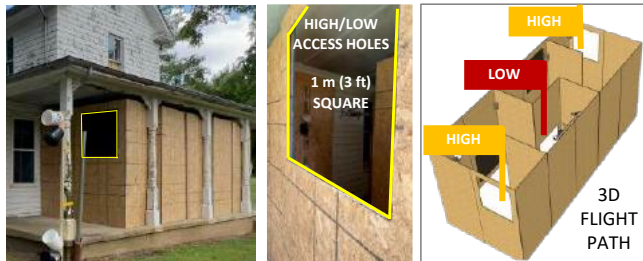
- All sequences have 1–10 positions with 20 alternating white and black buckets to score:
- Score ALIGNMENT POINTS by capturing a SINGLE IMAGE of the inscribed rings to verify alignments during or after the trial: UNBROKEN RINGS (5 pts), BROKEN RINGS (1 pt).
- Score ACUITY POINTS by identifying and calling out the 5 increasingly small VISUAL ACUITY TARGET GAPS (1 pt each).
- Faults for extreme deviations from the intended flight path or contact with any object ends the trial to ensure safety.
- Timer starts at launch and ends after the last task is completed. Trial time limits are typically set to 5 minutes each (25 minutes to complete all 5 tests) although organizations may set their own trial time limits and passing scores.

Confined Room-to-Room Labyrinth

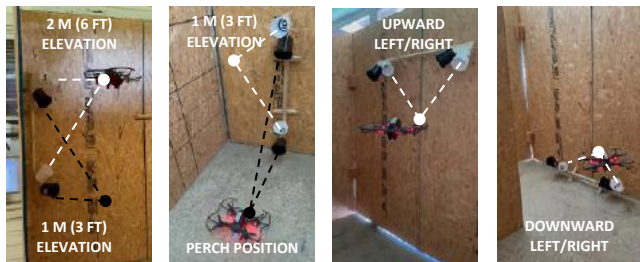
Search tasks with 1 m (3ft) minimum clearances

USE SETS OF 5 “INLINE” DUAL BUCKET RAILS

HORIZONTALS FOR LEFTWARD/RIGHTWARD INSPECTIONS



VERTICALS FOR UPWARD/DOWNWARD INSPECTIONS



- Fabricated room-to-room search scenario with inspect tasks that can be replicated to track and compare scores.
- Self-standing plywood corner walls define 1.2m (4 ft) switchback hallways with a blackout tarp ceiling over top at 2.4m (8ft). Fits inside a 6m (20ft) shipping container.
- Square access “windows” measuring 1m (3ft) square provide entry/exit and interior high/low pass throughs.

Confined Vehicle Inspection Scenarios

Day and Night Trials

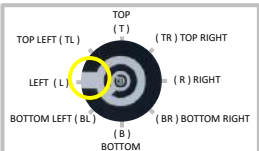
USE SETS OF 5 “INLINE” DUAL BUCKET RAILS

DISTRIBUTED THROUGHOUT THE SCENARIO



VERSION 2023A

LEVEL 5 | CONFINED
SCORABLE SCENARIOS



Pilot LAST Name

Pilot FIRST Name

Pilot Organization

Drone Make

Drone Model

Facility Location

Date (YYYY/MM/DD)

Team #:

PROCTOR NAME

BUCKET DIAMETER

2 IN
(5 CM)

4 IN
(10 CM)

(CIRCLE ONE)

LIGHTED
300+ LUX

VISIBILITY

DIM
1-300 LUX

(CIRCLE ONE)

DARK
< 1 LUX

WIND

AVERAGE

GUSTS

MPH

MPH

(FILL IN)

PILOT VIEW

LINE OF SIGHT

FACINE LANE
OPTIONAL V.O.

INTERFACE ONLY
BACK TO LANE
MANDATORY V.O.

(CIRCLE ONE)

TIME LIMIT

5
MIN

10
MIN

MIN

(CIRCLE ONE or FILL IN)

ALIGNMENT SCORE: Circle points for images with UNBROKEN RINGS (5 pts), BROKEN RINGS (1 pt), Draw a line through all incomplete.
ACUITY SCORE: Circle correctly identified GAP DIRECTIONS in the answer key (1 pt each).

	BUCKETS	ALIGNMENT	ACUITY
START TIMER (CAPTURE CLOCK IMAGE)	NUMBER	IMAGE POINTS (5 OR 1 POINT)	CIRCLE GAPS (1 POINT EACH)
1 PERPENDICULAR BUCKET: ALIGN AND CAPTURE IMAGE	1	5 1 0	
2 ANGLED BUCKET: CALL OUT ACUITY GAP DIRECTIONS	1A		TR B TR L BR
3 PERPENDICULAR BUCKET: ALIGN AND CAPTURE IMAGE	2	5 1 0	
4 ANGLED BUCKET: CALL OUT ACUITY GAP DIRECTIONS	2A		L BR T TL R
5 PERPENDICULAR BUCKET: ALIGN AND CAPTURE IMAGE	3	5 1 0	
6 ANGLED BUCKET: CALL OUT ACUITY GAP DIRECTIONS	3A		BR T TL R BL
7 PERPENDICULAR BUCKET: ALIGN AND CAPTURE IMAGE	4	5 1 0	
8 ANGLED BUCKET: CALL OUT ACUITY GAP DIRECTIONS	4A		T BL B TR L
9 PERPENDICULAR BUCKET: ALIGN AND CAPTURE IMAGE	5	5 1 0	
10 ANGLED BUCKET: CALL OUT ACUITY GAP DIRECTIONS	5A		BL R TL L BL
11 PERPENDICULAR BUCKET: ALIGN AND CAPTURE IMAGE	6	5 1 0	
12 ANGLED BUCKET: CALL OUT ACUITY GAP DIRECTIONS	6A		TR B TR L BR
13 PERPENDICULAR BUCKET: ALIGN AND CAPTURE IMAGE	7	5 1 0	
14 ANGLED BUCKET: CALL OUT ACUITY GAP DIRECTIONS	7A		L BR T TL R
15 PERPENDICULAR BUCKET: ALIGN AND CAPTURE IMAGE	8	5 1 0	
16 ANGLED BUCKET: CALL OUT ACUITY GAP DIRECTIONS	8A		BR T TL R BL
17 PERPENDICULAR BUCKET: ALIGN AND CAPTURE IMAGE	9	5 1 0	
18 ANGLED BUCKET: CALL OUT ACUITY GAP DIRECTIONS	9A		T BL B TR L
19 PERPENDICULAR BUCKET: ALIGN AND CAPTURE IMAGE	10	5 1 0	WHILE PERCHED
20 ANGLED BUCKET: CALL OUT ACUITY GAP DIRECTIONS	10A		BL R TL L BL
STOP TIMER. RECORD SCORES AND ELAPSED TIME.		/50	/50
ELAPSED TIME (MM:SS)			

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