

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.

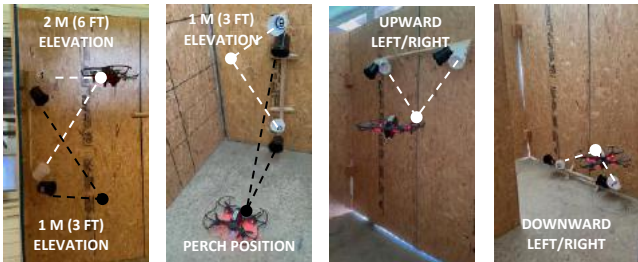
Confined Room-to-Room Labyrinth

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



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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) (CIRCLE ONE) 4 IN (10 CM) (CIRCLE ONE)		VISIBILITY LIGHTED 300+ LUX (CIRCLE ONE) DIM 1-300 LUX (CIRCLE ONE) DARK < 1 LUX (CIRCLE ONE)		WIND AVERAGE _____ MPH (FILL IN) GUSTS _____ MPH (FILL IN)		PILOT VIEW LINE OF SIGHT (CIRCLE ONE) FACINE LANE OPTIONAL V.O. INTERFACE ONLY (CIRCLE ONE) BACK TO LANE MANDATORY V.O.		TIME LIMIT 5 MIN 10 MIN _____ MIN (CIRCLE ONE OR FILL IN)		
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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)			

	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	
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