

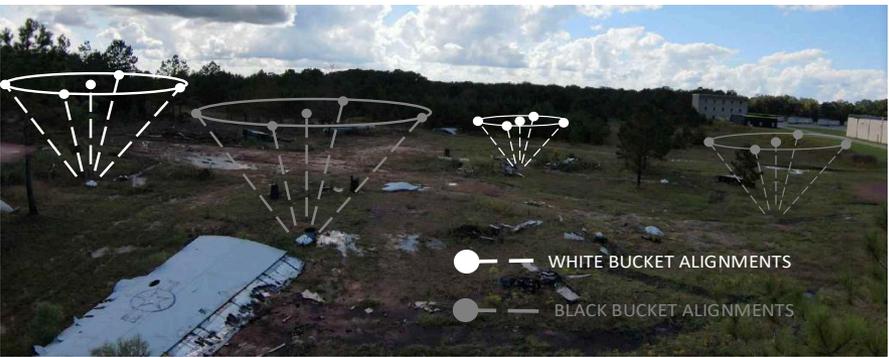
# Open Area Search Scenarios

## Day and Night Trials

WIDE AREA SEARCH



URBAN AREA SEARCH



**NIST**  
National Institute of  
Standards and Technology  
U.S. Department of Commerce



## Pocket Guide for Aerial Drones



# OPEN AREA Tests and Scenarios



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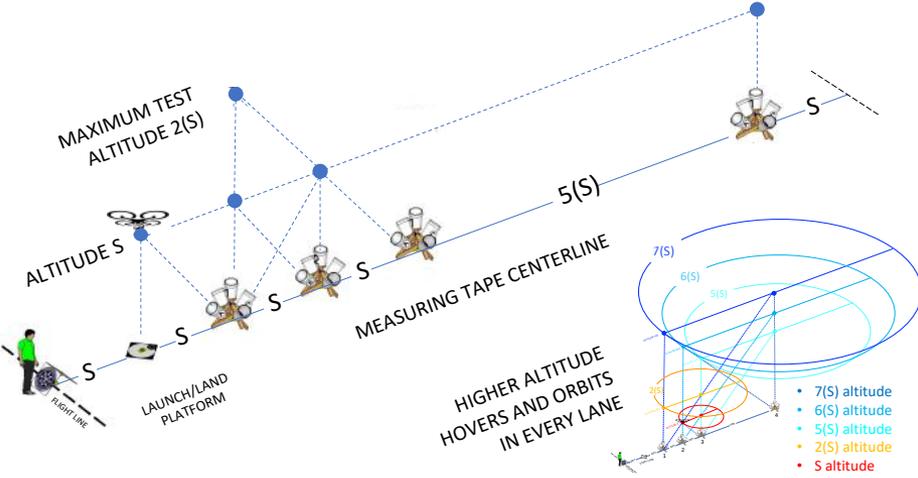
# Open Area Test Lanes and Scenarios

Evaluate safety, capabilities, and proficiency

### MEASURE & COMPARE

### SCALABLE TEST LANES (ALTITUDE = SPACING)

The Open Test Lanes and related scenarios are scalable to be used at various altitudes both indoors on a basketball court and outdoors on a football field or parking lot.



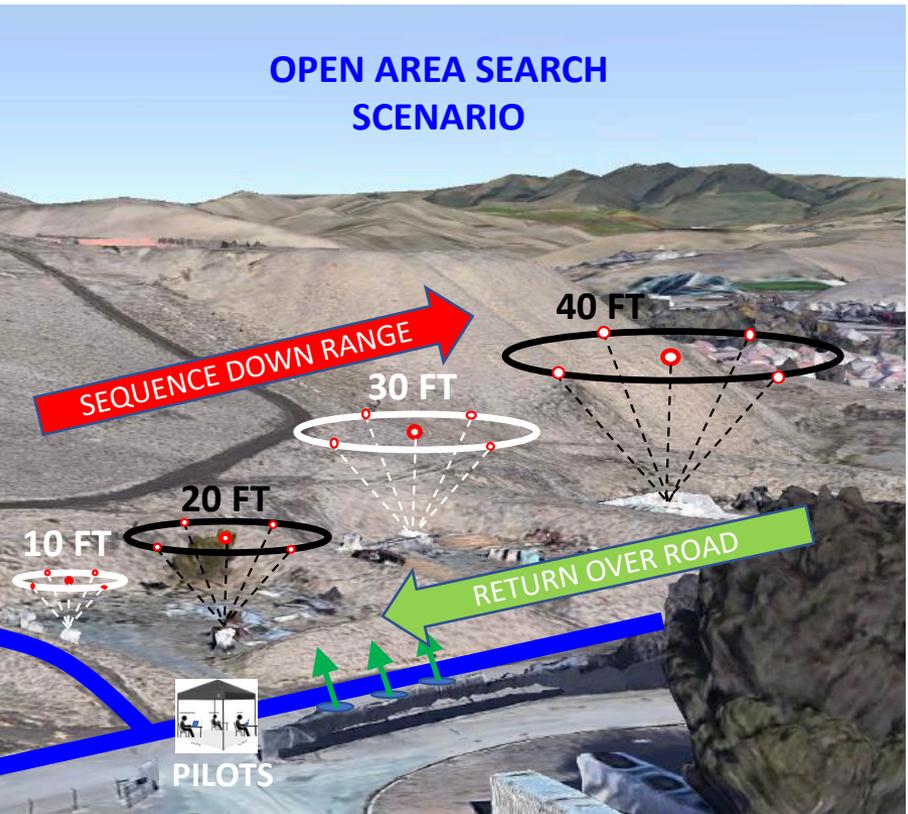
**OMNI STAND SPACING = S    MAX TEST ALTITUDE = 2(S)    LANE LENGTH = 10(S)**

3 m (10 ft)	6 m (20 ft)	30 m (100 ft)
6 m (20 ft)	12 m (40 ft)	60 m (200 ft)
9 m (30 ft)	18 m (60 ft)	90 m (300 ft)

OPEN SCENARIO   SEARCH		ALIGNMENT		ACUITY	
START TIME. CAPTURE PRE-LAUNCH IMAGE OF CLOCK		BUCKET SEQUENCE	IMAGE POINTS	CIRCLE CORRECT GAPS (1 POINT EACH)	
1	HOVER OVER STAND #1 AT ANY ALTITUDE TO ALIGN	1	5 1	T	BL R BR L
2	PITCH BACKWARD TO ALIGN	1A	5 1	TR	B TR L BR
3	ORBIT LEFTWARD 90° TO ALIGN	1B	5 1	R	TL T BL B
4	ORBIT LEFTWARD 90° TO ALIGN	1C	5 1	BR	R TL L BR
5	ORBIT LEFTWARD 90° TO ALIGN	1D	5 1	B	TL R BL T
6	HOVER OVER STAND #2 AT ANY ALTITUDE TO ALIGN	2	5 1	BL	T BR R TL
7	PITCH BACKWARD TO ALIGN	2A	5 1	L	BR T TL R
8	ORBIT RIGHTWARD 90° TO ALIGN	2D	5 1	TR	B TL B BL
9	ORBIT RIGHTWARD 90° TO ALIGN	2C	5 1	T	BL R TL B
10	ORBIT RIGHTWARD 90° TO ALIGN	2B	5 1	TL	R TR L BR
11	HOVER OVER STAND #3 AT ANY ALTITUDE TO ALIGN	3	5 1	R	TL B BL R
12	PITCH BACKWARD TO ALIGN	3A	5 1	BR	T TL R BL
13	ORBIT LEFTWARD 90° TO ALIGN	3B	5 1	B	TR R BL T
14	ORBIT LEFTWARD 90° TO ALIGN	3C	5 1	BL	R BL T BR
15	ORBIT LEFTWARD 90° TO ALIGN	3D	5 1	L	TL R BR T
16	HOVER OVER STAND #4 AT ANY ALTITUDE TO ALIGN	4	5 1	TL	B TR R BR
17	PITCH BACKWARD TO ALIGN	4A	5 1	T	BL B TR L
18	ORBIT RIGHTWARD 90° TO ALIGN	4D	5 1	BR	B TL B TR
19	ORBIT RIGHTWARD 90° TO ALIGN	4C	5 1	R	BL T TR B
20	ORBIT RIGHTWARD 90° TO ALIGN	4B	5 1	TR	L BL R TL
STOP TIMER. RECORD SCORES AND TIME				/100	/100
ELAPSED TIME (MM:SS)					

# Open Area Search Scenarios

Day and Night Trials

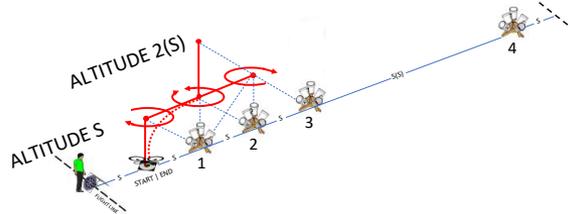


- Teams concurrently fly separate objectives set up at safe distances and/or altitudes apart (with a clearly designated and safe return path).
- Each pilot flies for 15 minutes across 3 different objectives for 5 minutes each. Teams move as necessary to maintain sight lines and communication.
- Scenarios restart with a different rotation of Pilot, Proctor, and VO.

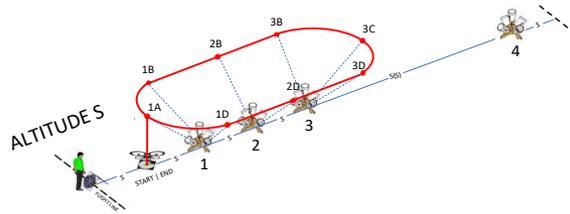
# Bucket Alignments Define Flight Paths

Designated altitudes, positions, and orientations

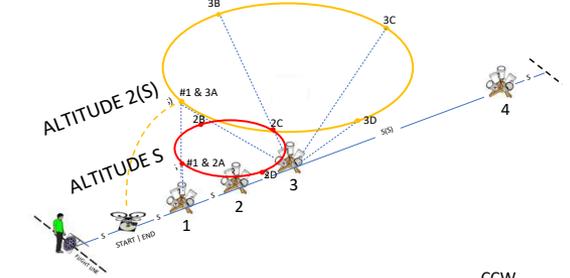
**POSITION**  
MAN/PAY 1



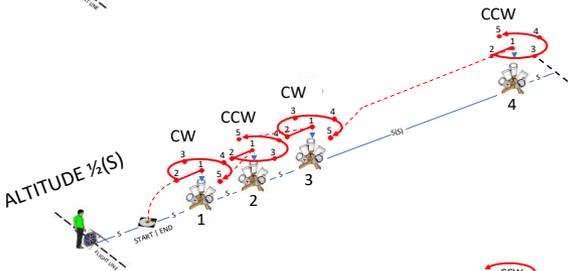
**TRAVERSE**  
MAN/PAY 2



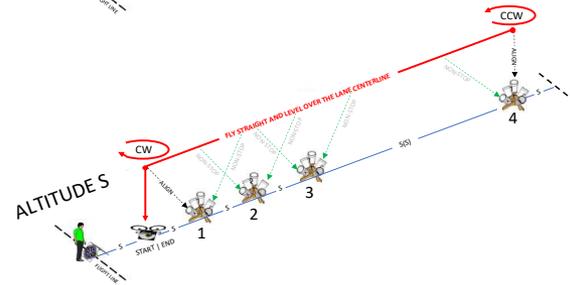
**ORBIT**  
MAN/PAY 3



**INSPECT**  
MAN/PAY 4



**RECON**  
MAN/PAY 5







# Scoring Alignment Points

Capture images of alignment rings to verify

## ALIGN WITH BUCKETS AND LAND ACURATELY

20 ALIGNMENTS TOTAL UP TO 100 POINTS



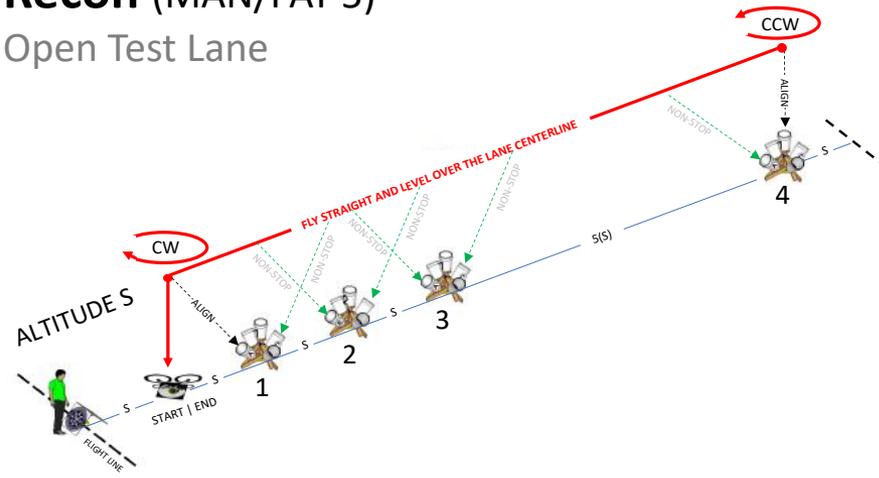
- Align with each bucket to capture a SINGLE IMAGE of the inscribed alignment ring.
- Score captured images with UNBROKEN RINGS (5 points), or BROKEN RINGS (1 point). Draw a line through all incomplete buckets.
- Score accurate landings as CENTERED (5 pts) with the aircraft center inside the designated 60 cm (24 inch) diameter circle. Or OFFSET (1 pts) with at least one propeller motor inside the circle.
- Verification of captured alignment images can be during the trial when obvious or after the trial to eliminate discussions during the trial. Images can also be stored for documentation.

OPEN TEST LANE   RECON		ALIGNMENT		ACUITY				
START TIME. CAPTURE PRE-LAUNCH IMAGE OF CLOCK		BUCKET SEQUENCE	IMAGE POINTS	CIRCLE CORRECT GAPS (1 POINT EACH)				
1	FLY AT ALTITUDE 5 TO STAND #4 TO ALIGN	4	5 1	TL	B	TR	R	BR
2	YAW LEFT 180° TO ALIGN	7	5 1	BR	T	BL	L	TL
3	FLY TO THE LAUNCH AND YAW RIGHT 180° TO ALIGN	L	5 1	B	TR	L	BL	T
4	HOVER IN PLACE TO ALIGN – CHECK ALTITUDE 5	1A	5 1	TR	B	TR	L	BR
5	FLY AT ALTITUDE 5 TO STAND #4 TO ALIGN	4	5 1	TL	B	TR	R	BR
6	YAW LEFT 180° TO ALIGN	7	5 1	BR	T	BL	L	TL
7	FLY TO THE LAUNCH AND YAW RIGHT 180° TO ALIGN	L	5 1	B	TR	L	BL	T
8	HOVER IN PLACE TO ALIGN – CHECK ALTITUDE 5	1A	5 1	TR	B	TR	L	BR
9	FLY AT ALTITUDE 5 TO STAND #4 TO ALIGN	4	5 1	TL	B	TR	R	BR
10	YAW LEFT 180° TO ALIGN	7	5 1	BR	T	BL	L	TL
11	FLY TO THE LAUNCH AND YAW RIGHT 180° TO ALIGN	L	5 1	B	TR	L	BL	T
12	HOVER IN PLACE TO ALIGN – CHECK ALTITUDE 5	1A	5 1	TR	B	TR	L	BR
13	FLY AT ALTITUDE 5 TO STAND #4 TO ALIGN	4	5 1	TL	B	TR	R	BR
14	YAW LEFT 180° TO ALIGN	7	5 1	BR	T	BL	L	TL
15	FLY TO THE LAUNCH AND YAW RIGHT 180° TO ALIGN	L	5 1	B	TR	L	BL	T
16	HOVER IN PLACE TO ALIGN – CHECK ALTITUDE 5	1A	5 1	TR	B	TR	L	BR
17	FLY AT ALTITUDE 5 TO STAND #4 TO ALIGN	4	5 1	TL	B	TR	R	BR
18	YAW LEFT 180° TO ALIGN	7	5 1	BR	T	BL	L	TL
19	FLY TO THE LAUNCH AND YAW RIGHT 180° TO ALIGN	L	5 1	B	TR	L	BL	T
20	HOVER IN PLACE TO ALIGN – CHECK ALTITUDE 5	1A	5 1	TR	B	TR	L	BR
STOP TIMER. RECORD SCORES AND TIME								
				/100		/100		

ELAPSED TIME (MM:SS)

# Recon (MAN/PAY 5)

Open Test Lane



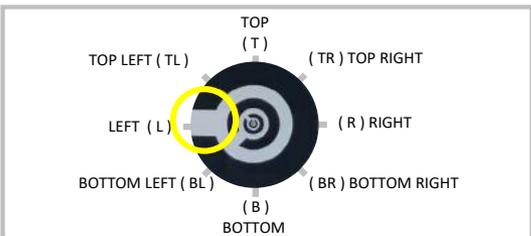
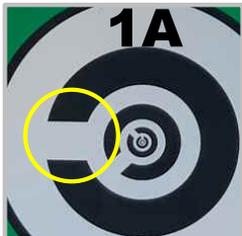
- Fly straight and level at a sustainable speed directly over the lane centerline to establish a stable hover over an object and perform straight quick reconnaissance tasks.
- Maintain altitude (S) throughout starting over the launch/land platform to align with the designated targets at both ends of the lane.
- A complete trial totals a distance of 80(S).
- Accurate landings are not included.
- **Alignment Points:** Capture a SINGLE IMAGE of each alignment ring throughout 5 laps with 20 buckets to score up to 100 alignment points.
- **Acuity Points:** While aligned with each bucket, identify as many acuity target gaps as possible to score up to 100 acuity points.

# Scoring Acuity Points

Identify increasingly small visual acuity targets

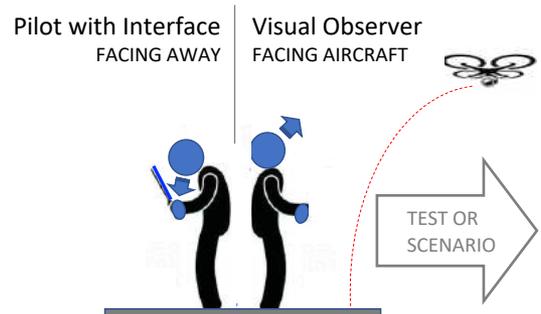
## ALIGN THEN CONTROL ZOOM AND EXPOSURE

20 TARGETS TOTAL UP TO 100 POINTS



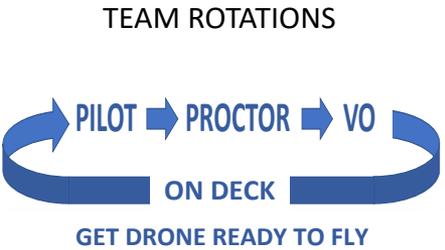
REPORT GAP DIRECTIONS RELATIVE TO THE BUCKET NUMBER (TOP)

- While aligned with each bucket, IDENTIFY ACUITY TARGETS using camera zoom and exposure controls.
- Verbally call out as many of the Concentric C gap directions as possible (1 pt each) with a Proctor.
- Fly facing away from the test lane or scenario (with a Visual Observer) to evaluate flying interface only as if beyond visual line of sight (BVLOS).



# Teams Rotate Through Each Role

Each Pilot flies a 5-minute trial with help from others.  
 A 3-4 person team completes all 5 tests in 2 hours.



Four person teams always have one person getting their aircraft ready to launch right after the previous lands.

Three person teams work too, but require some time between each rotation to prepare the next aircraft.

## PILOT

- Maintain control of the aircraft.
- Call out each intention of movement before doing so.
- Call out each bucket alignment and acuity target gap.

## PROCTOR

- Fill in the form header.
- Read the test procedures to the Pilot.
- Confirm, record, and attest to scoring after the trial.

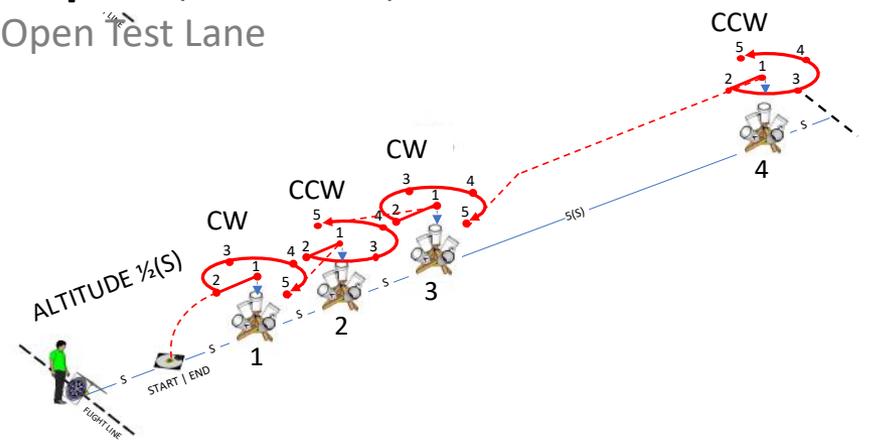
## VISUAL OBSERVER (VO)

- Maintain sight with the aircraft and surroundings.
- Repeat the Pilot's intention of movement to confirm.
- Call out corrections and warnings as necessary.

OPEN TEST LANE   INSPECT		ALIGNMENT		ACUITY						
START TIMER. CAPTURE PRE-LAUNCH IMAGE OF CLOCK		BUCKET SEQUENCE	IMAGE POINTS	CIRCLE CORRECT GAPS (1 POINT EACH)						
1	HOVER OVER STAND #1 AT ALTITUDE 1/2(S) TO ALIGN	1	5 1	T	BL	R	BR	L		
2	PITCH BACKWARD TO ALIGN	1A	5 1	TR	B	TR	L	BR		
3	ORBIT LEFTWARD 90° TO ALIGN	1B	5 1	R	TL	T	BL	B		
4	ORBIT LEFTWARD 90° TO ALIGN	1C	5 1	BR	R	TL	L	BR		
5	ORBIT LEFTWARD 90° TO ALIGN	1D	5 1	B	TL	R	BL	T		
6	HOVER OVER STAND #2 AT ALTITUDE 1/2(S) TO ALIGN	2	5 1	BL	T	BR	R	TL		
7	PITCH BACKWARD TO ALIGN	2A	5 1	L	BR	T	TL	R		
8	ORBIT RIGHTWARD 90° TO ALIGN	2D	5 1	TR	B	TL	B	BL		
9	ORBIT RIGHTWARD 90° TO ALIGN	2C	5 1	T	BL	R	TL	B		
10	ORBIT RIGHTWARD 90° TO ALIGN	2B	5 1	TL	R	TR	L	BR		
11	HOVER OVER STAND #3 AT ALTITUDE 1/2(S) TO ALIGN	3	5 1	R	TL	B	BL	R		
12	PITCH BACKWARD TO ALIGN	3A	5 1	BR	T	TL	R	BL		
13	ORBIT LEFTWARD 90° TO ALIGN	3B	5 1	B	TR	R	BL	T		
14	ORBIT LEFTWARD 90° TO ALIGN	3C	5 1	BL	R	BL	T	BR		
15	ORBIT LEFTWARD 90° TO ALIGN	3D	5 1	L	TL	R	BR	T		
16	HOVER OVER STAND #4 AT ALTITUDE 1/2(S) TO ALIGN	4	5 1	TL	B	TR	R	BR		
17	PITCH BACKWARD TO ALIGN	4A	5 1	T	BL	B	TR	L		
18	ORBIT RIGHTWARD 90° TO ALIGN	4D	5 1	BR	B	TL	B	TR		
19	ORBIT RIGHTWARD 90° TO ALIGN	4C	5 1	R	BL	T	TR	B		
20	ORBIT RIGHTWARD 90° TO ALIGN	4B	5 1	TR	L	BL	R	TL		
STOP TIMER. RECORD SCORES AND ELAPSED TIME									/100	/100
				ELAPSED TIME (MM:SS)						

# Inspect (MAN/PAY 4)

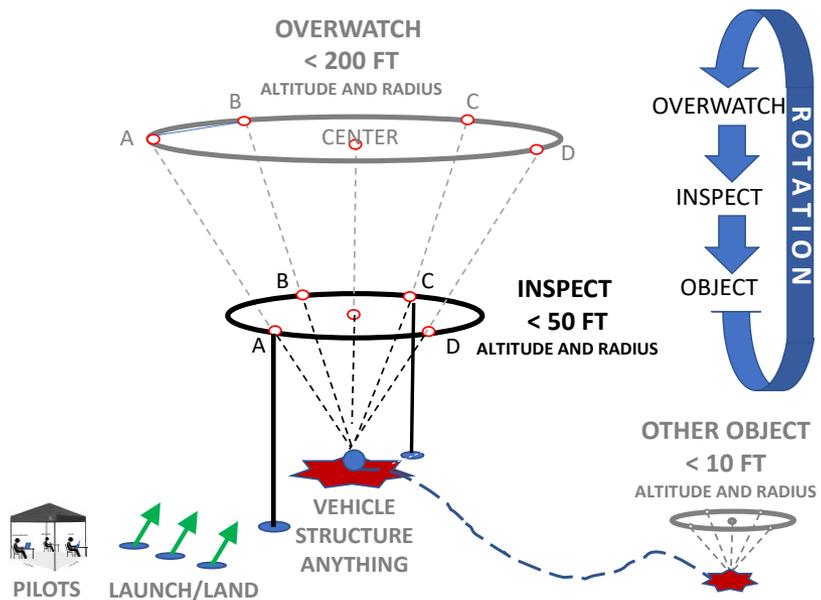
Open Test Lane



- Fly around objects in close proximity to inspect detailed features on the top and all four sides.
- Maintain altitude  $1/2(S)$  throughout starting on top of each omni stand then rotate around all four omni bucket stands in alternating clockwise (A-B-C-D) and counter clockwise (A-D-C-B) directions.
- Accurate landings are not included.
- **Alignment Points:** Capture a SINGLE IMAGE of each alignment ring throughout 4 omni stands with 20 buckets to score up to 100 alignment points.
- **Acuity Points:** While aligned with each bucket, identify as many acuity target gaps as possible to score up to 100 acuity points.

# Teams Sequence Through Scenarios

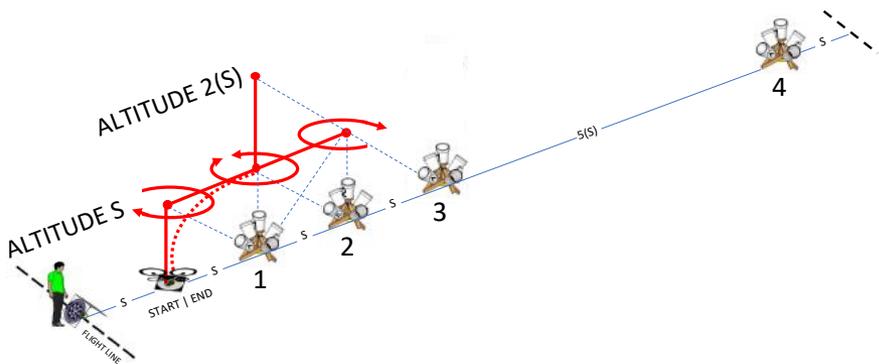
Each Pilot flies a 15-minute scenario, sequencing through 3 objectives for 5 minutes each.



- This scenario mechanization enables embedded bucket scoring tasks to be performed similarly by all participating Pilots. So the results are comparable within the same scenario layout. Additional tactics can be overlaid onto these scenarios at your facility.
- Up to 3 teams concurrently fly different scenario objectives from safe distances and altitudes apart.
- Teams move as necessary to maintain sight lines with their aircraft and communications with other teams. The overwatch team leads communications.
- Scenarios restart every 20 minutes with a different rotation of Pilot, Proctor, and VO.

# Position (MAN/PAY 1)

## Open Test Lane

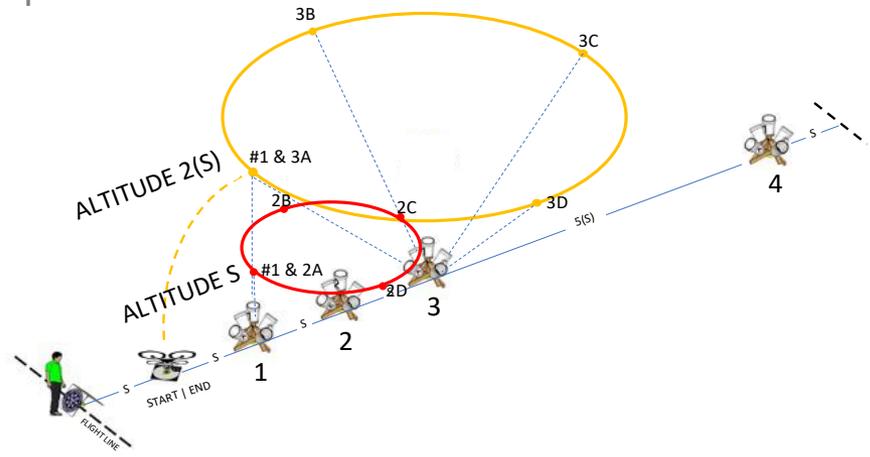


- Demonstrate positive aircraft control using basic flight maneuvers between designated hover positions, orientations, and altitudes along the lane centerline.
- Perform a series of maneuvers including climb, descend, yaw, pitch, and roll to simultaneously align with downward and forward buckets in each position.
- Land accurately on the platform with the chassis CENTERED (5 pts) within the 60 cm (24 in) diameter circle, or OFFSET (1 pt) at least one motor in the circle.
- **Alignment Points:** Capture a SINGLE IMAGE of each alignment ring throughout 1 lap through 10 positions with 20 buckets and accurate landings to score up to 100 alignment points.
- **Acuity Points:** While aligned with each bucket, identify as many acuity target gaps as possible to score up to 100 acuity points.

OPEN TEST LANE   ORBIT		ALIGNMENT		ACUITY	
START TIMER & CAPTURE PR-LAUNCH IMAGE OF CLOCK		BUCKET SEQUENCE	IMAGE POINTS	CIRCLE CORRECT GAPS (1 POINT EACH)	
1	ALIGN OVER STAND #1 AT ALTITUDE 2(S) CHECK RADIUS	1	5 1	T	BL R BR L
2	ALIGN WITH BUCKET 3A CHECK ALTITUDE	3A	5 1	BR	T TL R BL
3	ORBIT LEFTWARD 90° TO ALIGN WITH	3B	5 1	B	TR R BL T
4	ORBIT LEFTWARD 90° TO ALIGN WITH	3C	5 1	BL	R BL T BR
5	ORBIT LEFTWARD 90° TO ALIGN WITH	3D	5 1	L	TL R BR T
6	ALIGN OVER STAND #1 AT ALTITUDE 2(S) CHECK RADIUS	1	5 1	T	BL R BR L
7	ALIGN WITH BUCKET 3A TO CHECK ALTITUDE	3A	5 1	BR	T TL R BL
8	ORBIT RIGHTWARD 90° TO ALIGN WITH	3D	5 1	L	TL R BR T
9	ORBIT RIGHTWARD 90° TO ALIGN WITH	3C	5 1	BL	R BL T BR
10	ORBIT RIGHTWARD 90° TO ALIGN WITH	3B	5 1	B	TR R BL T
11	ALIGN OVER STAND #1 AT ALTITUDE S CHECK RADIUS	1	5 1	T	BL R BR L
12	ALIGN WITH BUCKET 2A CHECK ALTITUDE	2A	5 1	L	BR T TL R
13	ORBIT LEFTWARD 90° TO ALIGN WITH	2B	5 1	TL	R TR L BR
14	ORBIT LEFTWARD 90° TO ALIGN WITH	2C	5 1	T	BL R TL B
15	ORBIT LEFTWARD 90° TO ALIGN WITH	2D	5 1	TR	B TL B BL
16	ALIGN OVER STAND #1 AT ALTITUDE S CHECK RADIUS	1	5 1	T	BL R BR L
17	ALIGN WITH BUCKET 3A CHECK ALTITUDE	2A	5 1	L	BR T TL R
18	ORBIT RIGHTWARD 90° TO ALIGN WITH	2D	5 1	TR	B TL B BL
19	ORBIT RIGHTWARD 90° TO ALIGN WITH	2C	5 1	T	BL R TL B
20	ORBIT RIGHTWARD 90° TO ALIGN WITH	2B	5 1	TL	R TR L BR
STOP TIMER. RECORD SCORES AND ELAPSED TIME					
				/100	/100
		ELAPSED TIME (MM:SS)			

# Orbit (MAN/PAY 3)

## Open Test Lane

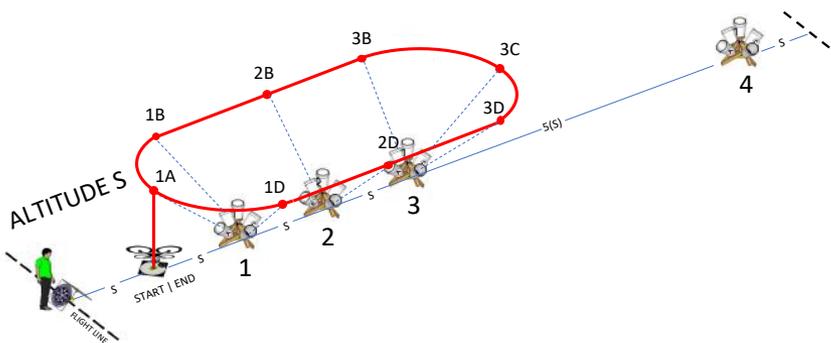


- Orbit an object at an equal altitude and radius while looking inward to identify features on four sides.
- Each orbit includes 5 bucket alignments: 1 downward radius check plus 4 angled buckets all around.
- Start aligned over omni stand #1 at altitude 2(S) to set the orbit radius around omni stand #3. Orbit both directions ending at the start point.
- Descend over omni stand #1 to altitude S to set the orbit radius around omni stand #2. Orbit both directions. Accurate landings are not included.
- Alignment Points:** Capture a SINGLE IMAGE of each alignment ring throughout 4 orbits (leftward and rightward at each altitude) with 20 buckets to score up to 100 alignment points.
- Acuity Points:** While aligned with each bucket, identify as many acuity target gaps as possible to score up to 100 acuity points.

OPEN TEST LANE   POSITION		ALIGNMENT	ACUITY	
START TIMER. CAPTURE PRE-LAUNCH IMAGE OF CLOCK.		BUCKET SEQUENCE	IMAGE POINTS	
		CIRCLE CORRECT GAPS (1 POINT EACH)		
1	<b>LAUNCH AND HOVER OVER STAND #1</b> ALIGN WITH BOTH BUCKETS	1	5 1	T BL R BR L
2	CAPTURE ONE IMAGE DOWNWARD THEN FORWARD	2A	5 1	L BR T TL R
3	<b>YAW LEFT 360° OVER STAND #1</b> ALIGN WITH BOTH BUCKETS	1	5 1	T BL R BR L
4	CAPTURE ONE IMAGE DOWNWARD THEN FORWARD	2A	5 1	L BR T TL R
5	<b>YAW RIGHT 360° OVER STAND #1</b> ALIGN WITH BOTH BUCKETS	1	5 1	T BL R BR L
6	CAPTURE ONE IMAGE DOWNWARD THEN FORWARD	2A	5 1	L BR T TL R
7	<b>CLIMB VERTICALLY OVER STAND #1</b> ALIGN WITH BOTH BUCKETS	1	5 1	T BL R BR L
8	CAPTURE ONE IMAGE DOWNWARD THEN FORWARD	3A	5 1	BR T TL R BL
9	<b>DESCEND VERTICALLY OVER STAND #1</b> ALIGN WITH BOTH BUCKETS	1	5 1	T BL R BR L
10	CAPTURE ONE IMAGE DOWNWARD THEN FORWARD	2A	5 1	L BR T TL R
11	<b>PITCH FORWARD TO STAND #2</b> ALIGN WITH BOTH BUCKETS	2	5 1	BL T BR R TL
12	CAPTURE ONE IMAGE DOWNWARD THEN FORWARD	3A	5 1	BR T TL R BL
13	<b>PITCH BACKWARD TO STAND #1</b> ALIGN WITH BOTH BUCKETS	1	5 1	T BL R BR L
14	CAPTURE ONE IMAGE DOWNWARD THEN FORWARD	2A	5 1	L BR T TL R
15	<b>PITCH FORWARD TO STAND #2 THEN YAW LEFT 180°</b> ALIGN WITH BOTH BUCKETS		5 1	TR B TL L BR
16	CAPTURE ONE IMAGE DOWNWARD THEN FORWARD	1C	5 1	BR R TL L BR
17	<b>PITCH FORWARD TO LANDING THEN YAW RIGHT 180°</b> ALIGN WITH BOTH BUCKETS	L	5 1	B TR L BL T
18	CAPTURE ONE IMAGE DOWNWARD THEN FORWARD	1A	5 1	TR B TR L BR
19	<b>LAND IN CIRCLE CENTERED (5 PTS) OR OFFSET (1 PT)</b> COUNT SINGLE LANDING TWICE FOR DOUBLE ALIGNMENT SCORE	P1	5 1	BL R TL L BL
20	CAPTURE ONE IMAGE OF PERCH 1 (P1) AND PERCH 2 (P2) TARGETS	P2	5 1	L BR T TL B
<b>STOP TIMER. RECORD SCORES AND ELAPSED TIME</b>			/100	/100
				ELAPSED TIME (MM:SS)

# Traverse (MAN/PAY 2)

## Open Test Lane



- Fly sideways parallel to objects while looking forward to identify features as if along a road, truck, bus, building, fence, tree line, etc.
- Maintain altitude (S) throughout to complete two laps in both directions around the first three omni stands.
- Land accurately on the platform with the chassis CENTERED (5 pts) within the 60 cm (24 in) diameter circle, or OFFSET (1 pt) at least one motor in the circle.
- **Alignment Points:** Capture a SINGLE IMAGE of each alignment ring throughout 2 laps with 20 buckets and accurate landings to score up to 100 alignment points.
- **Acuity Points:** While aligned with each bucket, identify as many acuity target gaps as possible to score up to 100 acuity points.

OPEN TEST LANE   TRAVERSE		ALIGNMENT		ACUITY	
START TIMER. CAPTURE PRE-LAUNCH IMAGE OF CLOCK		BUCKET SEQUENCE	IMAGE POINTS	CIRCLE CORRECT GAPS (1 POINT EACH)	
1	HOVER OVER THE LAUNCH PLATFORM TO ALIGN WITH	1A	5 1	TR	B TR L BR
2	ORBIT 90° LEFTWARD AROUND STAND #1 TO ALIGN WITH	1B	5 1	R	TL T BL B
3	ROLL LEFTWARD TO STAND #2 TO ALIGN WITH	2B	5 1	TL	R TR L BR
4	ROLL LEFTWARD TO STAND #3 TO ALIGN WITH	3B	5 1	B	TR R BL T
5	ORBIT 90° LEFTWARD AROUND STAND #3 TO ALIGN WITH	3C	5 1	BL	R BL T BR
6	ORBIT 90° LEFTWARD AROUND STAND #3 TO ALIGN WITH	3D	5 1	L	TL R BR T
7	ROLL LEFTWARD TO STAND #2 TO ALIGN WITH	2D	5 1	TR	B TL B BL
8	ROLL LEFTWARD TO STAND #1 TO ALIGN WITH	1D	5 1	B	TL R BL T
9	ORBIT 90° LEFTWARD AROUND STAND #1 TO ALIGN WITH	1A	5 1	TR	B TR L BR
10	LAND IN CIRCLE (5 PTS CENTERED, 1 PT FOR ANY LEG)	P1	5 1	B	TR L BL T
11	HOVER OVER THE LAUNCH PLATFORM TO ALIGN WITH	1A	5 1	TR	B TR L BR
12	ORBIT 90° RIGHTWARD AROUND STAND #1 TO ALIGN WITH	1D	5 1	B	TL R BL T
13	ROLL RIGHTWARD TO STAND #2 TO ALIGN WITH	2D	5 1	TR	B TL B BL
14	ROLL RIGHTWARD TO STAND #3 TO ALIGN WITH	3D	5 1	L	TL R BR T
15	ORBIT 90° RIGHTWARD AROUND STAND #3 TO ALIGN WITH	3C	5 1	BL	R BL T BR
16	ORBIT 90° RIGHTWARD AROUND STAND #3 TO ALIGN WITH	3B	5 1	B	TR R BL T
17	ROLL RIGHTWARD TO STAND #2 TO ALIGN WITH	2B	5 1	TL	R TR L BR
18	ROLL RIGHTWARD TO STAND #1 TO ALIGN WITH	1B	5 1	R	TL T BL B
19	ORBIT 90° RIGHTWARD AROUND STAND #1 TO ALIGN WITH	1A	5 1	TR	B TR L BR
20	LAND IN CIRCLE (5 PTS CENTERED, 1 PT FOR ANY LEG)	P2	5 1	B	TR L BL T
STOP TIMER. RECORD SCORES AND ELAPSED TIME				/100	/100

ELAPSED TIME (MM:SS)