ALT: 00.0 ft
LINK: STABLE

BATT: 100%
MODE: TACTICAL



# Practical Flight Operations & Flight Proficiency

Dakdan Pilot Academy: Module 9
Physical Flight Line Evaluation
Status: Mandatory Graduation Gate

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ALTITUDE: 1500 FT AGL

LINK STATUS: STRONG

BATTERY: 85%

MODE: TACTICAL BRIEFING

# CROSSING THE PHYSICAL THRESHOLD

## THE SIMULATOR




## THE FLIGHT LINE




THE ACADEMY COMPRESSION MODEL ACCELERATES PATTERN RECOGNITION THROUGH DIGITAL REPETITION.

MODULE 9 IS THE PHYSICAL REALIZATION OF THAT TRAINING.

ACCELERATION RULE APPLIES: TIME IS COMPRESSED. STANDARDS ARE NOT. YOU MUST PROVE PHYSICAL MASTERY BEFORE RECEIVING COMMERCIAL CLEARANCE.

ALTITUDE: 1500 FT AGL

MODE: TACTICAL BRIEFING

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# THE 85-POINT ACCUMULATION GAUGE




| GAUGE LEGEND | |
|---|---|
| DOCUMENTATION & SITE SETUP: | 10 PTS |
| AIRCRAFT INSPECTION & PREFLIGHT: | 15 PTS |
| CREW BRIEFING & COMMUNICATION: | 10 PTS |
| TAKEOFF & BASIC CONTROL: | 15 PTS |
| ORIENTATION & PRECISION MANEUVERS: | 15 PTS |
| SITUATIONAL AWARENESS: | 10 PTS |
| EMERGENCY & ABNORMAL RESPONSE: | 15 PTS |
| LANDING & POSTFLIGHT LOGGING: | 10 PTS |

**PASS THRESHOLD:** MINIMUM 85/100 TOTAL POINTS REQUIRED.



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MODE:
TACTICAL BRIEFING

# THE KILL SWITCH: ZERO-TOLERANCE CRITICAL FAILURES

ANY SINGLE VIOLATION RESULTS IN AN IMMEDIATE SCORE OF ZERO AND EVALUATION FAILURE.



**COLLISION HAZARD:**
Creates or accepts an avoidable collision risk.



**COMMAND DISREGARD:**
Fails to yield to manned aircraft or disregards instructor safety commands.



**DEFECTIVE LAUNCH:**
Knowingly launches with a disqualifying aircraft defect.

ALTITUDE:
1500 FT AGL

BATTERY:
85%

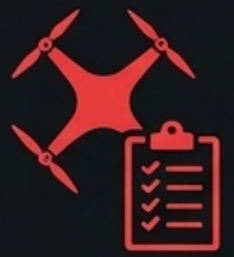
LINK STATUS:
STRONG




**SPATIAL DISORIENTATION:**
Operates outside the authorized area or loses operational awareness.




**FAILED ABORT:**
Continues the mission after a required abort condition or loss of safe control.



**RECKLESS ACTION:**
Acts carelessly/recklessly or falsifies a checklist/flight record.

BATTERY:
85%

BATTERY:
85%

MODE:
TACTICAL BRIEFING

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# PHASE 1: PREFLIGHT AND SITE CONTROL

## COLUMN 1: THE PILOT & ENVIRONMENT

- [✓] VERIFY PILOT CREDENTIALS & CURRENT TRAINING
- [✓] CONFIRM AIRSPACE, RESTRICTIONS & AUTHORIZATIONS
- [✓] ANALYZE WEATHER & DENSITY ALTITUDE
- [✓] ESTABLISH SITE HAZARDS & PERIMETER CONTROL
- [✓] CONDUCT CLOSED-LOOP CREW BRIEFING

## COLUMN 2: THE MACHINE & SYSTEMS

- [✓] INSPECT AIRCRAFT STRUCTURE, PROPS, AND MOTORS
- [✓] VERIFY BATTERY CONDITION AND PAYLOAD SECURITY
- [✓] CONFIRM REMOTE ID COMPLIANCE & REGISTRATION
- [✓] LOCK GNSS HOME POINT & CALIBRATE COMPASS
- [✓] SET RETURN-TO-HOME (RTH) ALTITUDE PARAMETERS



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# INITIAL LAUNCH AND HOVER TOLERANCE

**The Standard:**
Upon takeoff and during assigned hovers, the aircraft must be stabilized within a strict spatial boundary.

**Horizontal Limit:**
Maximum 2-foot drift from the center target point.

**Vertical Limit:**
Maximum 2-foot variance from the assigned altitude.

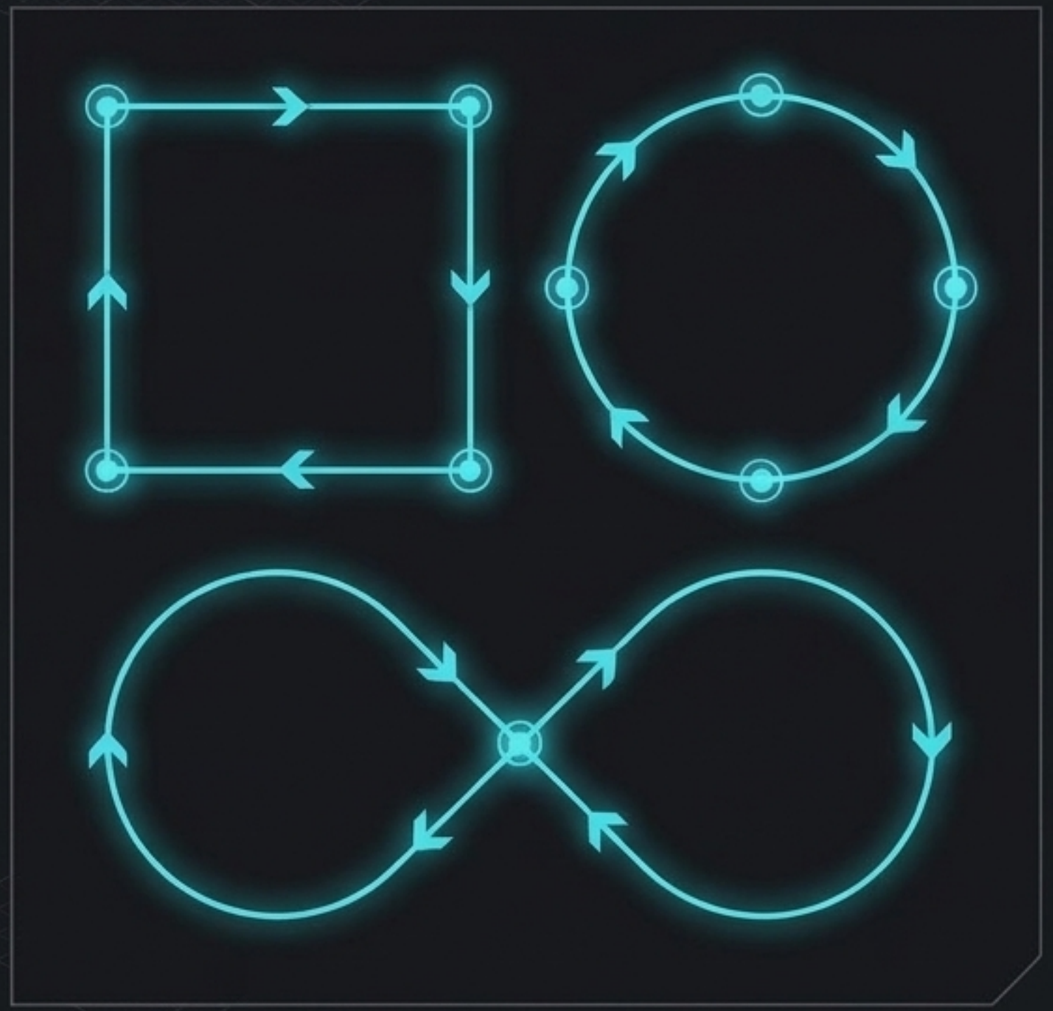



**Instructor Note:**
Breaking the cylinder boundary results in immediate point deductions under the Aircraft Control (20pt) category.



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# PRECISION MANEUVERING CIRCUITS



## CONTROLLED TRANSLATION

Smooth, continuous movement through the Square, Circle, and Figure Eight profiles without jerky altitude corrections.

## ORIENTATION MASTERY

Aircraft must be flown in both nose-in and side-in orientations.

## COGNITIVE LOAD

The pilot must mentally reverse control inputs instantly when the aircraft faces the control station (Nose-in) without inducing drift.



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# AIRSPACE DISCIPLINE AND SITUATIONAL AWARENESS

ALTITUDE: 1500 FT AGL
BATTERY: 86%

LINK STATUS: STRONG
MODE: TACTICAL BRIEFING




## VISUAL LINE OF SIGHT (VLOS)

Eyes must systematically scan between the telemetry screen and the physical aircraft. Over-reliance on the screen is a deduction.

## PERIMETER MANAGEMENT

The pilot must actively monitor for unauthorized people or vehicles entering the operational volume.

## INSTRUCTOR BOUNDARIES

Flying behind the pilot line or outside the designated safety box constitutes a loss of situational awareness (Immediate failure).

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# PHASE 3: ABNORMAL AND EMERGENCY TRIGGERS

You will be intentionally tested with unannounced simulated emergencies. You must prioritize maintaining aircraft control, assessing the hazard, and taking immediate safe action.

ALTITUDE: 1600 FT AGL

LINK STATUS: STABLE

BATTERY: 72%

MODE: TACTICAL BRIEFING




## GNSS DEGRADATION

Loss of GPS stabilization (manual ATTI mode flight required).

GPS SATS: 4 (UNSTABLE)

## LINK LOSS

Control signal severed; monitoring automated recovery.

RECOVERY: ATTEMPTING (5 SECS)

## POWER ANOMALY

Low battery warning earlier than calculated.

VOLTAGE: CRITICAL (21.5V)

## ENVIRONMENTAL

Sudden, severe wind increase altering flight dynamics.

WIND: GUSTS 25+ KTS

## INTRUSION

Unauthorized person or vehicle breaches the safe zone.

TARGET: PERSON DETECTED

## PROPULSION FAILURE

Immediate loss of thrust requiring emergency abort.

MOTOR 2: RPM LOSS

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# Executing the Return to Home (RTH) Protocol

ALTITUDE: 1500 FT AGL
BATTERY: 86%

LINK STATUS: STRONG
MODE: TACTICAL BRIEFING




## Verify Settings Before Flight

RTH altitude must clear the tallest obstacle in the operational area.

## Monitor Execution

Never assume the automation is flawless. Keep visual contact and be prepared to cancel RTH and take manual control if the path is unsafe.

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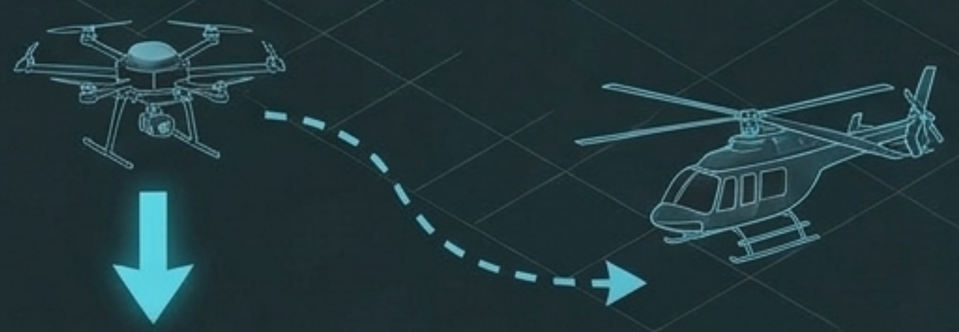
# RIGHT OF WAY: MANNED AIRCRAFT CONFLICT

ALTITUDE: 1400 FT AGL
BATTERY: 80%

LINK STATUS: STRONG
MODE: TACTICAL BRIEFING

**The Absolute Rule: Unmanned aircraft must always yield the right of way to manned aircraft.**

## SAFE ACTION



Immediately descend, alter course, or land to clear the airspace. Announce the hazard to the crew.

## CRITICAL FAILURE



Maintaining altitude, delaying response, or relying on the manned aircraft to see and avoid the drone. (Zero-tolerance failure).

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# Phase 4: Precision Recovery and Postflight

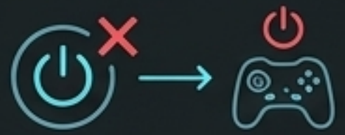
1

**Precision Touchdown:** Land safely on the designated pad without bouncing or drift.



2

**Safe Shutdown:** Power down the aircraft before powering down the remote controller to prevent signal loss flyaways.



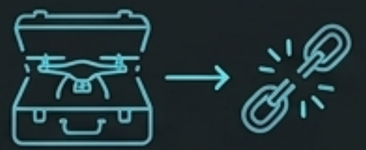
3

**Battery & Hardware Inspection:** Physically inspect the battery for swelling or abnormal heat. Check props and motors for new damage or debris.



4

**Secure Perimeter:** Break down the site only after the aircraft is fully rendered safe and packed.





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# The Audit Trail: Mission Documentation

The practical evaluation is not over until the paperwork is closed.




ALTITUDE: 0 FT AGL
BATTERY: 100%
LINK STATUS: DISCONNECTED
MODE: MISSION REVIEW

**Flight Time Logging:**

Accurately record takeoff, landing, and total duration.

**Discrepancy Reporting:**

Note any hardware anomalies or required maintenance discovered during the flight.

**Data Handling:**

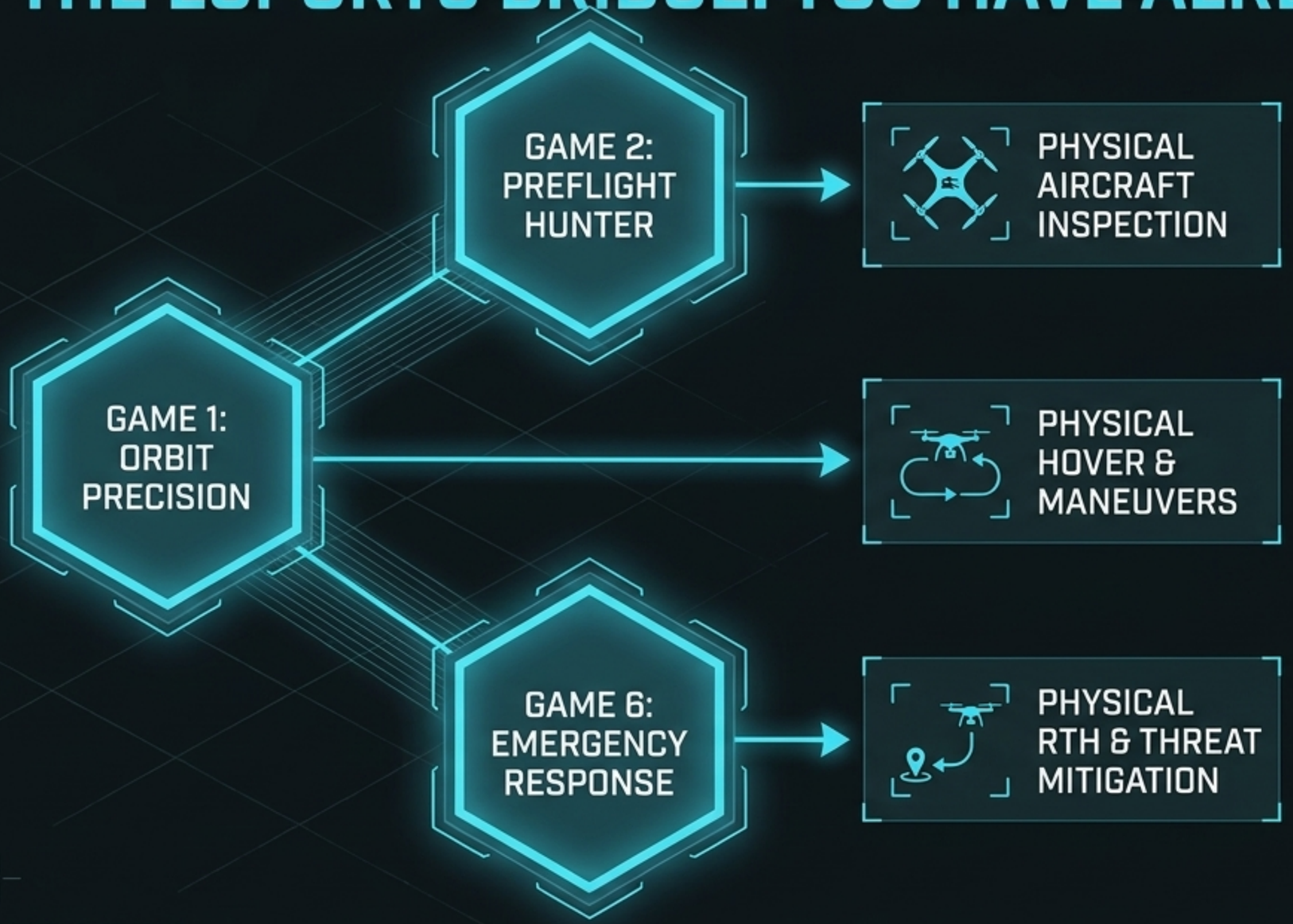
Confirm mission files, photos, or telemetry are secured per protocol.

**After-Action Review (AAR):**

Orally brief the instructor on your performance, errors made, and corrective actions taken.

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# THE ESPORTS BRIDGE: YOU HAVE ALREADY DONE THIS




**THE DAKDAN ESPORTS ENVIRONMENT WAS ENGINEERED FOR THIS EXACT PHYSICAL TEST.**

- Your reaction times, checklist discipline, and emergency prioritization have already been pressure-tested in the digital arena.
- Translate your digital speed into physical precision.



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ALTITUDE: 50 FT AGL

BATTERY: 95%



## SAFETY.

EXECUTE THE CHECKLISTS; YIELD TO THREATS.

## PRECISION.

CONTROL THE MACHINE AND THE AIRSPACE.

## AUTHORITY.

OWN THE DECISIONS ON THE FLIGHT LINE.

**FINAL REMINDER: 85/100 POINTS MINIMUM. ZERO EXCEPTIONS FOR SAFETY VIOLATIONS. YOU ARE CLEARED TO LAUNCH.**

LINK STATUS: STANDBY

MODE: MISSION COMPLETE

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