

# Drone Systems Test and Iteration

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

## Page 1 • Team run log

Fictional mission: inspect a marked equipment panel and return one usable observation without touching the target or crossing the boundary.

Route: ☐ Live indoor microdrone ☐ Simulator ☐ Tabletop

Roles: operator/mover • spotter/boundary checker • evidence logger • communication checker

### TRIAL 1

Goal and main variable: \_\_\_\_\_

Result and usable evidence:

\_\_\_\_\_

Breakdown or limitation:

\_\_\_\_\_

One-variable revision: \_\_\_\_\_

### TRIAL 2

Goal and main variable: \_\_\_\_\_

Result compared with Trial 1:

\_\_\_\_\_

Breakdown or limitation:

\_\_\_\_\_

One-variable revision: \_\_\_\_\_

Stop immediately when a safety, boundary, equipment, connection, or control condition fails.

**TRIAL 3 OR WRITTEN THIRD TRIAL**

Goal and main variable: \_\_\_\_\_

Result compared with Trials 1-2: \_\_\_\_\_

Final breakdown or limitation: \_\_\_\_\_

Next test: \_\_\_\_\_

**TEAM CLAIM**

The strongest result was Trial \_\_\_\_ because:

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Our evidence is limited because:

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One role rotation or communication change that improved the system:

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**TEAM CHECK**

- ☐ Stayed inside the assigned boundary
- ☐ Avoided target contact
- ☐ Recorded one usable observation
- ☐ Used goal, action, result, stop/revise communication
- ☐ Changed one main variable at a time

**Recovery model - use only for absence, equipment failure, or a written third trial:** T1 direct/18 s - target seen, boundary crossed. T2 wider/24 s - stayed inside, usable observation. T3 same safe route + stop/check/26 s - stayed inside, target and handoff complete. Speed did not decide the strongest result.

Page 3 • Individual iteration and transfer

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Variable changed: \_\_\_\_\_

Evidence that performance improved, declined, or stayed mixed:

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Next test and the evidence it would produce:

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Transferable skill: \_\_\_\_\_

How the skill appears in two occupations:

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TRADEOFF DECISION

A team can make another fast run or pause to investigate why the target evidence is blurry.

One advantage of each choice:

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My next action and run-log evidence:

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Use this frame: “I would \_ *because Trial* showed \_ . *The skill* also matters in \_ *and* \_ because \_\_\_\_.”