(Sample)

FLIGHT SKILLS TEST CURRICULUM T-30

Criteria

1.Conduct Crew Mission Brief

Testing

Brief PIC Instructor as if they are a crew member,

- Mission Objectives
- Operational area
- Expected flight duration/batteries
- Safety considerations

Criteria

2.Perform Mission Planning Procedures

Testing

Obtain weather, NOTAMS, check aircraft logs

Criteria

3.Plan Visual & Communication Flight Rules

Testing

To way radio frequency, alternate frequency, loss of radio contact

Criteria

4.Peform Exterior Inspection Procedures

Testing

Pre-Flight Checklist

1. Make sure the remote controller and aircraft battery are fully charged. The pesticides required are adequate.
2. Make sure the spray tank and Intelligent Flight Battery are firmly in place.
3. Make sure all parts are mounted securely.
4. Make sure all cables are connected properly and firmly.
5. Make sure propellers are securely mounted, that there are no foreign objects in or on the motors and propellers, that the propeller blades and arms are unfolded, and the arm locks are firmly tightened.
6. Make sure the spraying system is not blocked in any way.
7. Make sure the sprinkler hoses are clear from bubbles. Discharge any bubbles as they may affect the performance of the sprinkler. Press and hold the spray button for two seconds to start the automatic bubbles discharge function to spray the bubbles.

Criteria

5.Perform Payload Operational Checks

Testing

“This should have already been addressed with Criteria #4. Item 6 & 7. If the spraying system is blocked follow is the procedure”.

Discharging Trapped Air in the Hoses

The T30 features an automatic trapped air discharge function. When it is necessary to discharge trapped air, start the function through one of the two methods below. The aircraft will discharge automatically until the trapped air is fully discharged.

1. Press and hold the spray button for two seconds.

2. Enter Operation View, tap ⚙, then “spray Icon”, and tap Start on the right of the Clear Trapped Air section.

Criteria

6.Perform Engine Start/System Check

Testing

“Do not do engine start at this point. Engine start at Criteria #7. Do RC Check”

RC Check

In the app, go to Operation View. Make sure that there is a strong GNSS signal and the system status bar indicates Manual Route (GNSS), otherwise the aircraft cannot take off.

Criteria

7.Perform Take-off and Landing

Testing

Take off to a height of 10m, hover, and land.

Criteria

8.Perform Automatic Flight Mode

Testing

Flight route planning by flying the aircraft to waypoints, obstacles, and calibration points.

Criteria

9.Perform Manual Flight Mode

Testing

Take off, flying the aircraft manually at least two rows, land.

Criteria

10.Perform Emergency Procedures (RTH)

Testing

Start by flying route from previous automatic flight route. Disrupt flight route with stick. Use Smart RTH to fly drone back to base and land. Press and hold the RTH button on the remote controller when GNSS is available to enable Smart RTH. Both Smart and Failsafe RTH use the same procedure.

Criteria

11.React to System Emergency

Testing

RTH will not work if GNSS is lost. Pilot has already demonstrated ability to manually return drone to base and land in Criteria #9, Perform Manual Flight Mode.

Criteria

12.Perform After Landing Procedures

Testing

No chemical was used only water for test so have the pilot describe wash down procedures if chemical was used.