

Score Sheet: Inspection and Maintenance

General Information

Team Name: Royal Holloway University of London
 Saxion University of Applied Sciences
 University of Turku

Date: 13 May (Practice Runs) 14 May (Practice Runs) 15 May (Finals)

Run Number: Practice Run 1 Practice Run 2 Final Run (only 15 May)

Present: Yes / No (add -3 under Penalties)

Execution Time (20 minutes in total)*:

* Teams may try multiple times within the 20-minute window. Only the best attempt is recorded below.

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Attempt Tracker (Referee Internal Use)

Attempt #	Achievement Points	Time Used	Result (Success/Crash/Manual Stop)
1			
2			
3			

Official Best Run Achievements (1 Point per "Yes")

Check "Yes" only if the task was completed without pilot intervention. Maximum score is 8 points

Phase	Task Description	Achievement?
Phase 1: Launch	Autonomously takes off and enters the competition arena.	<input type="checkbox"/> Yes / <input type="checkbox"/> No
	Identifies the correct assigned pillar.	<input type="checkbox"/> Yes / <input type="checkbox"/> No
	Navigates to the pillar avoiding structural elements.	<input type="checkbox"/> Yes / <input type="checkbox"/> No

Phase	Task Description	Achievement?
Phase 2: Inspect	Positions safely at inspection distance.	<input type="checkbox"/> Yes / <input type="checkbox"/> No
	Maintains stable flight/hover during data capture.	<input type="checkbox"/> Yes / <input type="checkbox"/> No
	Successfully records data of cracks/irregularities.	<input type="checkbox"/> Yes / <input type="checkbox"/> No
Phase 3: Return	Returns autonomously to the starting point.	<input type="checkbox"/> Yes / <input type="checkbox"/> No
	Lands autonomously on the marked starting point.	<input type="checkbox"/> Yes / <input type="checkbox"/> No

Total Achievement Score: ____ / 8

Inspection Data Quality

The Data Bonus is added to the Achievement Score. Maximum extra score is 3 points

Selection	Data Quality Definition	Points
Real-Time	Clear, raw images/video provided immediately after the run. The team must hand the USB stick with raw footage to Referee 1 before dismantling their station. The USB must have sufficient space for high-quality raw images or video files	2 pts
Post-Processed	Improved data set (cleaned/stabilized) provided within 1 hour	1 pt
No/Poor Data	Footage is missing, blurry, or fails to show the pillar surface.	0 pts

Total Data Bonus Score: ____ / 3

Penalties & Disqualifications

Category	Behaviour Description	Penalty
Penalising	Manual intervention outside of the take-off/recovery area.	<input type="checkbox"/> -1 pt / instance
Penalising	Collision with obstacles/structures (no damage).	<input type="checkbox"/> -1 pt / instance
Disqualifying	Ignoring safety instructions or referee warnings	<input type="checkbox"/> VOID RUN
Disqualifying	Drone hits a bystander or helper.	<input type="checkbox"/> VOID RUN
Disqualifying	Drone damages permanent structures or safety equipment.	<input type="checkbox"/> VOID RUN
Disqualifying	Drone flies outside the designated safety corridor.	<input type="checkbox"/> VOID RUN

Final Calculation & Signatures

Achievement Points:

Data Bonus: +

Total Penalties: -

FINAL SCORE: _____

Tie-Break Metric 1: Quality/Completeness of inspection results.

Tie-Break Metric 2: Shortest minimum execution time (Recorded: _____)

Referee Signature

Team Leader Signature

Comments and feedback