DJI Agriculture Drone Training - Syllabus

Course Objectives

1. Safety – Safe flying and how to react during emergency situations
2. Solution – Understanding DJI Agriculture UAS solutions and the latest UAS technology
3. Operation – Learning about the DJI Smartfarm app and how to operate DJI's latest agriculture drone platform
4. Mission – Utilizing UAS to perform fertilising spraying
5. Maintenance – Standard equipment maintenance operations

Onsite Training

Day		Location	Lesson	Time	Content	Objective
Day 1	AM	Classroom	Overview & Safety Education	9:00-9:30	1. Introduce onsite training schedule & testing; 2. Review and stress on the safety flight;	1. Understand the training schedule and testing procedures; 2. Build up and stress on safety awareness
			Drone System & Operation	9:30-11:00	Review UAS system & DJI Pilot	1. Be familiar with Drone system; 2. Be familiar with DJI Smartfarm 3. Be familiar with DJI Agriculture Drone Series
			Software & Hardware Introduction	11:00-12:00	Introduce softwares & hardwares required for the operation	Familiarise with the Agricultural Drone components & softwares
			Lunch Break (12:00-13:00)			
	PM	Classroom	Introduction to Agricultural Drone	13:00-13:30	Agriculture Drone components and operation	1. Able to identify the components on the DJI Agricultural Drone 2. Be familiar with the operation of the drone and implementation on the operation.
			Remote Controller & Control Panel	13:30-14:30	DJI RC Plus Agriculture and DJI Smartfarm	1. Be familiar with drone' remote controller and integrated software. 2. Able to generate flight plan and control the drone with safety
			Aircraft Maintenance	13:30-14:30	DJI Agriculture Drone Hardware Care and Maintenance	1. Able to maintain the hardware of the aircraft in good condition 2. Able to perform basic maintenance after each mission 3. Able to identify the problems and solving the problems in terms of hardwares and softwares.
			Spraying System Introduction	14:30-17:00	Introduce spray system on each Agriculture Drone	1. Be familiar with the type of spray or spreader 2. Able to make use of different type of sprayer or spreader for different agrochemicals at different spray rate.
Day 2	AM	Classroom	Aerial Mapping & Software Introduction	9:00-9:30	Introduce to DJI Enterprise drone & software	1. Be familiar with mission planning for agriculture field 2. Able make use of the data in DJI Agriculture Drone route planning
			Agricultural Drone Mission Planning	9:30-12:00	Introduce to Agriculture Drone route planning software	Be familiar with the software and are able to generate route plan for DJI Agriculture Drone with safety in mind
			Lunch Break (12:00-13:00)			
	PM	Flight Field	Introduction to Base Station, Georeferencing and Aerial Mapping	13:00-14:00	Introduce DJI Base Station and Ground Control Point Marker	1. Be familiar with aerial mapping and understand the concept of Aerial Mapping and Georeferencing 2. Acknowledge the importance of Aerial Mapping and Georeferencing for DJI Agriculture drone 3. Able to setup base station and perform aerial mapping in an agriculture field 4. Able to tackle on different terrain and situation by adapting to the environment.
			Task: Aerial Mapping	14:00-17:00	Set-up base station, base station, and take-off point for the agriculture drone and proceed with aerial mapping data acquisition.	Understand the workflow and are able to comprehend based on the terrain and different scenarios on the field.
Day 3	AM	Classroom	Data Processing & Mission Planning	9:00-10:00	Data Processing & Agriculture Drone Mission Planning	1. Able to generate a 2d plan with the data collected during aerial mapping 2. Able to plan the flight route for the agriculture drone 3. Able to take account of drone limitations, quantity of agrochemicals required, and etc 4. Able to ensure the operation can be done with safety
			Task: Mission Planning	10:00-12:00	Planning Flight route in the software for DJI Agriculture Drone	1. Able to plan out the mission ahead by taking consideration of drone limitations, en route path, obstacle, and terrain. 2. Able to identify trees, obstacle, buildings, and pathway in route planning software.
			Lunch Break (12:00-13:00)			
	PM	Flight Field	Task: Agriculture Drone Basic Operation & Mission Performing	13:00-16:00	DJI Agriculture Drone Flight Execution	1. DJI Agriculture Drone Pre-Flight Checklist 2. Autonomous Flight Safety, Mission Pause and Resume 3. Agriculture Operation Post-Action
			Revision and Q&A Session	16:00-17:00	Revising the course	Revising what had the trainees learned throughout the training.
Day 4	AM	Classroom	Theory Examination	9:00-12:00	Online Examination System	Score 80% or above to pass the practical test
			Lunch Break (12:00-13:00)			
	PM	Flight Field	Aerial Mapping & Agriculture Drone Practical Examination	13:00-17:00	Part 1: preflight set-up and check; Part 2: circling flight maneuvering; Part 3: mapping & agriculture drone mission Part 4: emergencies procedures Part 5: post test operation	Score 80% or above to pass the practical test
			Closing event			

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