TRAINING CURRICULUM

The main focus in our training program is to conduct RPAS operations and tasks safely and precisely by providing essential knowledge keeping DGCA regulations in accordance. We have customized every step of the training, more than 20 hours of instructional hours divided between distinct methods and level of training.(More hours and special attention as per an individual trainee's level of proficiency and skill). UAV flying requires broad based knowledge of aeronautical principles to have controlled flying in standard and emergency conditions. Performing manoeuvres, necessary pre & post flight checks, thorough understanding of Civil Aviation Regulations, assembling and simulation training sessions are all a part of the program.

THE PROCESS OF TRAINING



Training with us- Dronelab Academy offers in-depth training and knowledge in unmanned flying, UAV systems and software. We offer advanced courses in multi-rotor UAV's, with the team of professional pilots, instructors and engineers who are willing to go the extra mile to put in great effort in your learning experience. The training will be conducted focusing on the safety and security of the unmanned systems as per the DGCA regulations.

Course Structure

This course through the course you will receive expert training in drone flying which will be conducted by qualified lecturers in sessions. All sessions will have introductions and main objectives presented by the tutor . Study material will be provided beforehand to all the trainees and each session will have prompt Q&A for the students, all questions will be answered raised by the trainees within the session. No need to own a drone, all the requirements for the training will be provided by us.Trainees will be encouraged to participate in all exercises and random scenarios. During and at the end of the course tests will be conducted for all the trainees with specified time. Topics from the sessions completed will be presented.

The main focus for these tests is to

- ➔ Present the trainees with assessment of their progress and understanding.
- ➔ To identify areas of improvement where they may need to put in extra time to seek complete and clear understanding with utmost guidance from our team.
- ➔ To provide instructors information on the progress of each trainee and then to evaluate quality of instruction provided and improve material or any other possible technique.

PREREQUISITES FOR TRAINING

- ❖ 10th Pass (English Medium) & 18 years old.
- ❖ No prior experience is required.

DAY WISE CURRICULUM

DAY	THEORY	PRACTICAL	HOURS
1	(i) DGCA regulations, Civil aviation details. Introduction, Basic Air Regulations, do's and don'ts of flying a drone. (ii) Types of drones and classifications. (iii) Basic principles of flying, fundamentals of aerodynamics, Take-off-Landing. (iv) Materials used in making drones, parts and motors, propellers, flight controller, operation and applications of drones.		3 hours

2	(i) Drone equipment in detail- batteries, flight controllers, payloads, ground station control, etc. (ii) Understanding Indian airspace rules, structures and restrictions. (iii) Operations of ATC(Air traffic control) and how their role in UAV flying. Communications with ATC. (iv) Flight planning, Radio Terminology.		3 hours
3	(i)Emergency handling and safe operations. (ii)Payload types and features of different payloads.		3 hours
4	(i) Theory test. (ii) Q&A Session		2 hours
5		(i) Simulator training- Hands on RC to control UAV and how to fly, RC commands and more.	3 hours
6		(i) Simulator training advanced.	3 hours

7		(i) Lab session- Assembling of a Drone.	3 hours
8		(i) Lab session- Fault finding, rectification, maintenance, documentation of all data.	3 hours
9		(i) Ground control system- why it's needed, functions of GCS. (ii) Mission Planning Basics	3 hours
10		(i) On field flying with a trained instructor. - Pre flight check - Setting up GCS - Basic flying controls	3 hours
11		(ii) Practical flying session with trained instructor. -	3 hours
12		(ii) Practical flying session - Solo flying under supervision and evaluation of flying skills by the instructor.	3 hours

13		(i) FIeld flying session- Final flying assessment.	3 hours
14	Session on procuring DGCA license – process, requirements, fees. Discussion on career opportunities as a drone pilot.		2 hours
15	FINAL CERTIFICATION		1 hours