

ADVANCED LOGISTICS DRONE SPECIALIST



Agenda

- To Train Professionals in Drone technology, with a particular focus on Logistics and related applications
- Duration of Course: 10 Days (80 Hours)



Day 01 - Introduction to Drones Technology and Logistics Applications



PART-02

Overview of Drones in Logistics, Applications and Current Trends



Drone Types: Fixed-wing, Multirotor & Hybrid VTOL Drones



Components of Drones



Introduction to drone flight control software and logistics planning tools

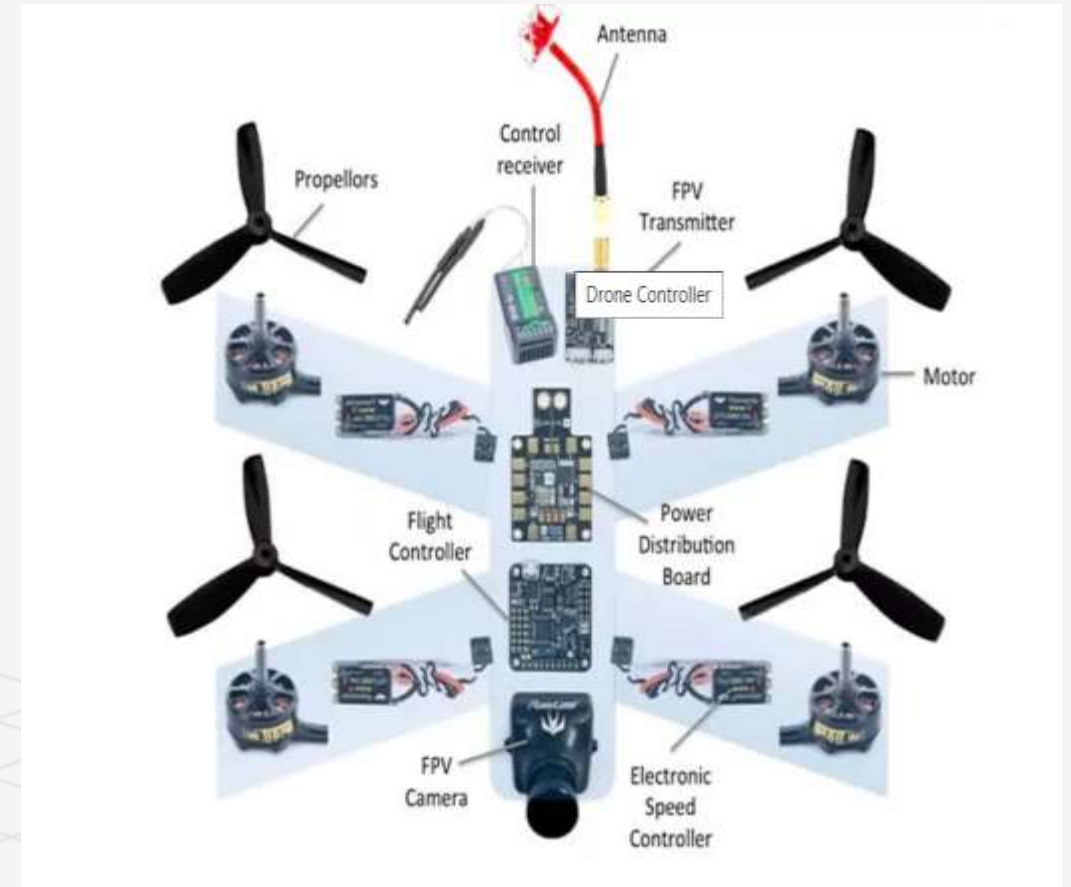
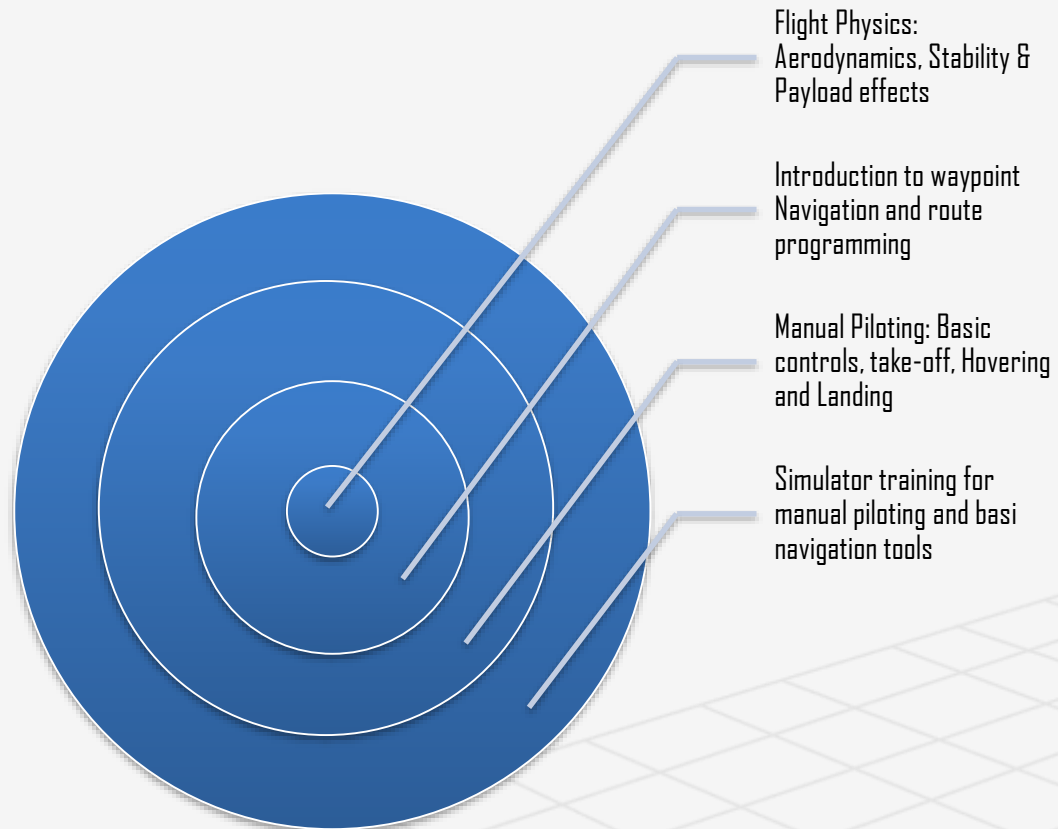


Hands-on session: Exploring drone components and their assembly



Day 2 – BASICS OF DRONE OPERATIONS

PART-02



Day 03 – Advanced Flight Operations

PART-02

BVLOS Operations: Rules, risks and planning

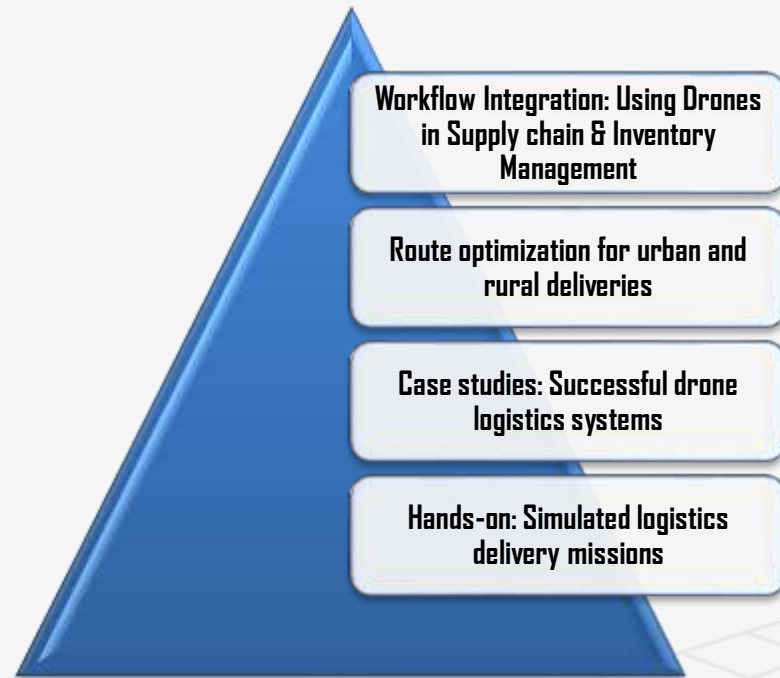
Hands-on planning and conducting BVLOS Mission

Navigation using GPS, LIDAR and obstacle detection systems

Autonomous flight operations: Configuring pre-programmed Logistics Routes



Day 04 – Drone applications in Logistics



Day 05 Drone maintenance and Trouble Shooting

Drone maintenance basics: Battery care, sensor calibration, and motor tuning

Common trouble shooting methods for flight & Software Issues

Hands-on: Performing maintenance and repairs on drone systems

Testing drone readiness for Logistics missions



Day 06 Safety and Compliance

Regulatory framework:
DGCA guidelines,
permissions and
certifications

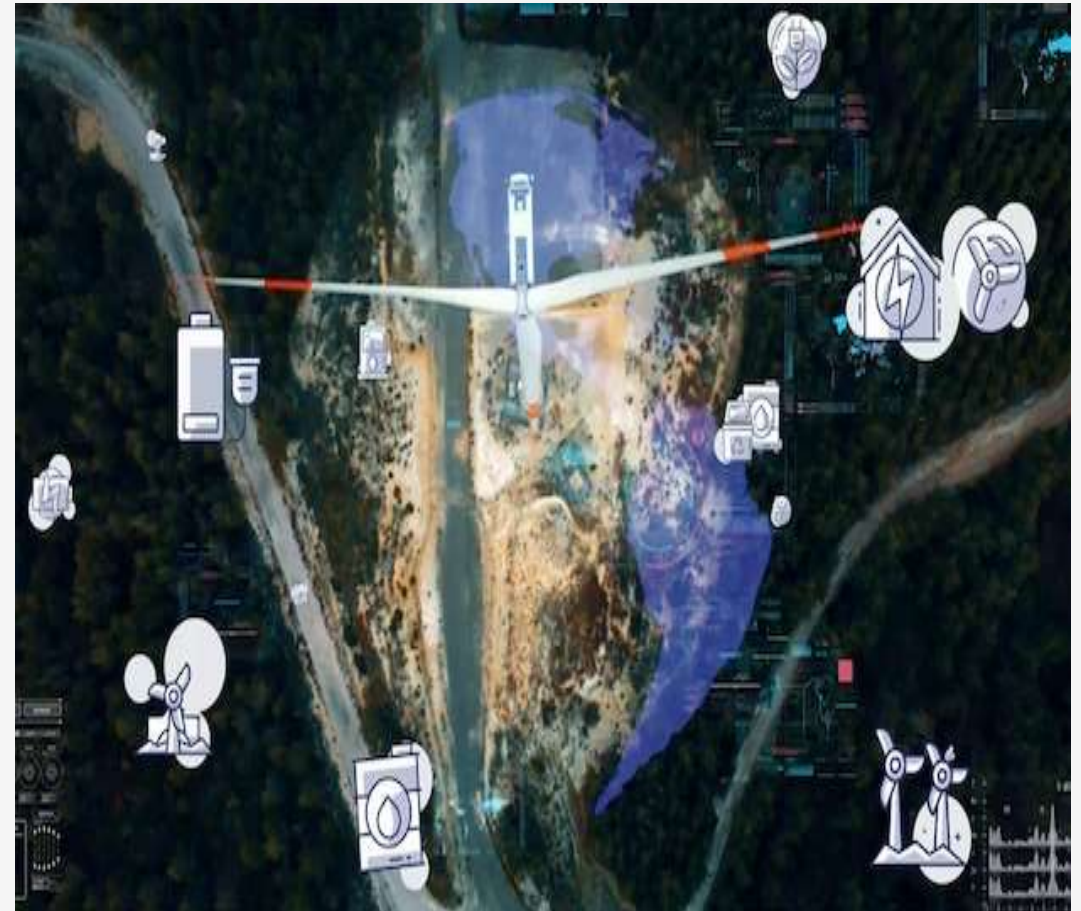
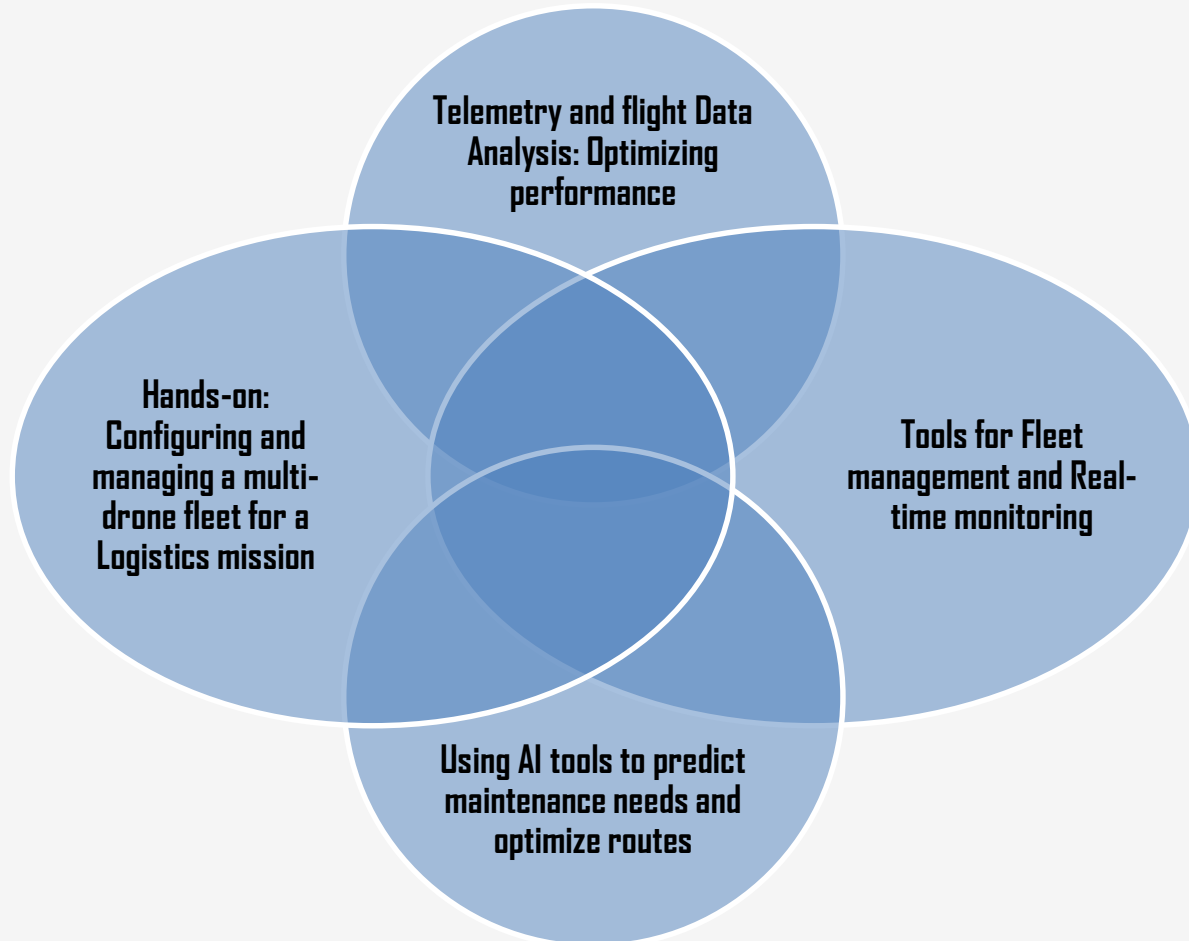
Airspace management
and flight safety
protocols

Emergency response
training: Handling
crashes, loss of
communication, and
adverse weather.

Simulator training:
Managing in-flight
emergencies



Day 07 Data Analysis and Fleet Management



Day 08 Industry Specific Applications

Specialized uses: Medical logistics, E-Commerce, and Disaster Relief

Introduction to drone swarms and coordinated multi-drone operations

Planning a multi-drone logistics operation
for a real-world scenario

Hands-on: Simulated delivery and Disaster management missions



Day 09 Capstone Project Preparation

Designing a comprehensive drone logistics operation

Refining operational plans with instructor feedback

Defining objectives, safety protocols, and compliance requirements

Collaborative planning session for a capstone project



Day 10 Capstone Project and Certification

Executing the capstone project: Completing a logistics mission

Evaluating performance, including delivery accuracy and operational efficiency

Presenting project outcomes to peers and instructors

Certification ceremony and feedback session



DGCA Approved Remote Pilot Certificate (RPC)



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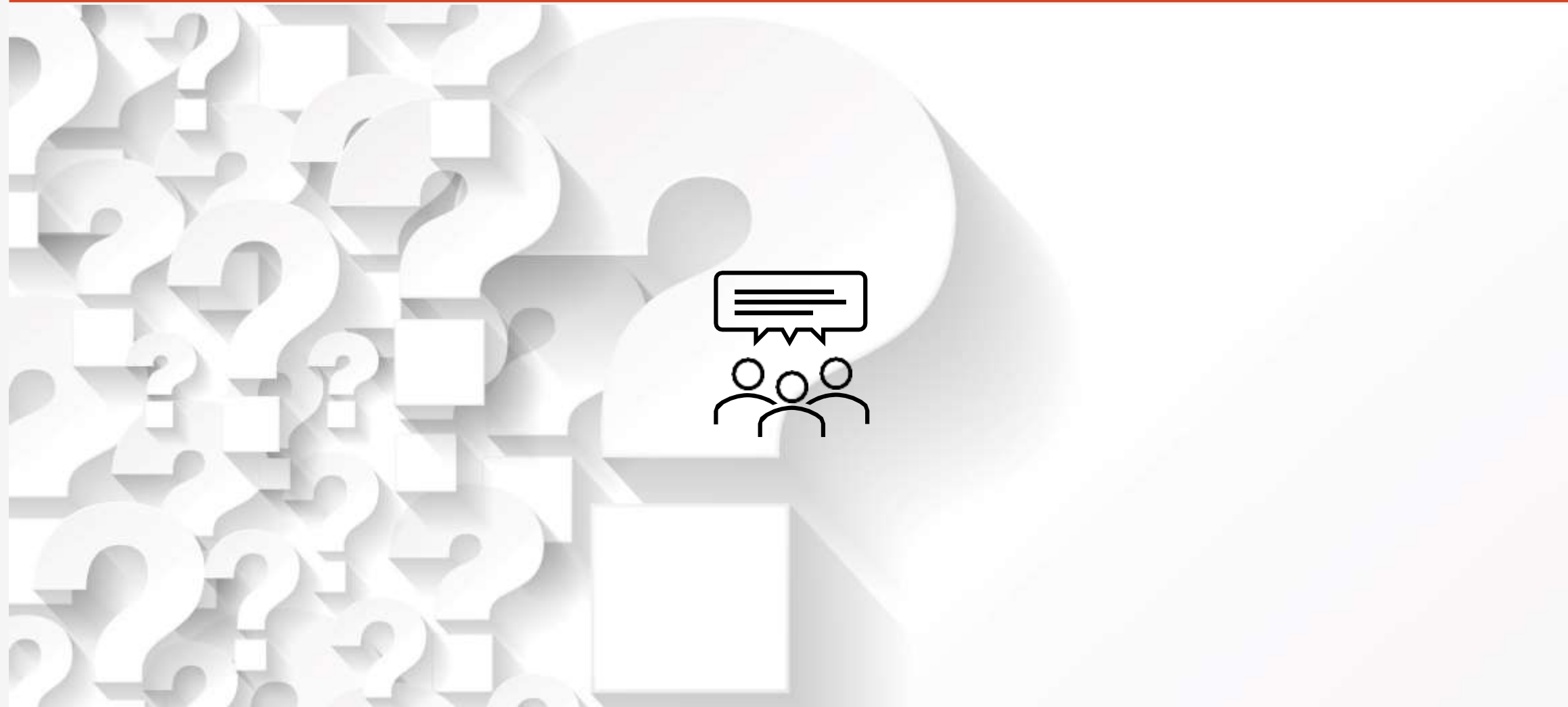
Directorate General of Civil Aviation
(DGCA)

DGCA Approved
RPC issued to all
the Participants
who successfully
completed the
course

**Valid for
10 years**

APPROVED

Questions & Answers





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