



Drone and Careers Workshop



Tawanda with the participants of the first Drone and Careers Workshop



Participants trying their hands at manual flight with Tello mini drones





OVERVIEW	
Flying Labs	Zimbabwe Flying Labs
Location	Harare, Zimbabwe Day 1: Indoor Sports Center with Astro turf and fully netted enclosure Day 2: Outdoors at local Sports Club
Date	28 - 29th August, 2021
Length (number of days)	2 days
Sector program (optional)	YouthRobotics
Format	In-Person
Co-organizer if applicable	Precision Aerial Company Sponsor - Zimbabwe Orphan Fund
SDGs	GOAL 4: Quality Education GOAL 8: Decent Work and Economic Growth

SCOPE & OUTCOMES	
Type of training	 Introduction training on drone applications Youth Career Training
Goal of the training	 Create drone awareness Train and empower youth and the workforce of the future
Expected outcome for participants	 Understand drones, drones use cases and safe operations. Basic practical flight training with Ryze Tello educational drones and professional drones (DJI Phantom 4)
Confirmed outcome after training	Participants were able to complete manual flights on their own with minimum supervision and understand the basic theory behind how drones operate. They were made aware of the many opportunities the drone industry can provide and were able to tie that to a local context.





Eventual next steps	 Make way for the participants to enroll in our Drone Pilot License certification training and achieve their Pilot License - as an additional professional skill may greatly boost employability. Encourage participants to pursue specialized industry-specific drone training eg. Drones in
	Agriculture, 3. Joining Flying Labs network volunteer program 4. Joining Precision Aerial internship program

PARTICIPANTS	
Profiles and number of participants	 Staff from Organizations a. 5 Staff Local community members a. 1 Guardian from the hostel Participants a. 10 Participants
Name of participants' organizations	St. Josephs Boys Orphanage
Gender ratio	Girls: Boys 0:10
Who paid for the training?	Zimbabwe Orphan Fund
Participant fee rate (if applicable)	None

CONTENT	
Training components	 Drone Display: a. Educational and Professional grade drones were on display as teaching tools for the workshop. These included: DJI Inspire 1, Phantom 4 Pro, Mavic 2 Pro and several FPV racing drones





	drones, drone construction & parts, local drone regulations, operations, and different drone use case applications across several industries. Theory training was conducted using presentations, videos and demonstrations. i. 3. Practical Flight Training a. Using Tello educational drones on day 1, each of the participants was taught how to take off & land safely and other operational maneuvers. On day 2, the participants were proficient enough with operating the tello drones that they engaged in a mini drone race challenge. The participants were also taught the basics of how commercial drones work and were each given the chance to operate the DJI Phantom 4 Professional drone.
Training resources used	 1. Resources DJI Go 4 and Tello apps Drone and Careers Workshop Video Report by Tawanda Chihambakwe
Approaches and methods used	 We added commercial industry drone related information into the curriculum to help participants understand real life applications We offered participants to put their theoretical knowledge into practice through flight planning, aerial cinematography and storytelling.