

Drone Awareness and Launch of Youth Robotics Training, “Project Dare to Fly”



Figure 1 Training session for 30 educator from Academia Secondary School, Windhoek



Figure 2 Teachers closely following proceedings at “Project Dare to Fly” launch



Figure 3 The training boasted of high female attendance



Figure 4 Attendees taking photos with training visual aids (DJI Phantom drones)

OVERVIEW	
Flying Labs	Namibia Flying Labs
Location	Windhoek, Namibia
Date	Friday, 22 January 2021
Length (number of days)	One (1)
Sector program (optional)	DevRobotics, YouthRobotics
Format	In-Person
Co-organizer if applicable	Academia Secondary School
SDGs	GOAL 4: Quality Education GOAL 9: Industry, Innovation and Infrastructure

SCOPE & OUTCOMES	
Type of training	<ol style="list-style-type: none"> 1. Introduction training to drones 2. Youth/STEM training
Goal of the training	<ol style="list-style-type: none"> 1. Create drone awareness 2. Train and empower youth educators
Expected outcome for participants	<ol style="list-style-type: none"> 1. Applications and use cases of drones in local context 2. Awareness of local availability of drone technology 3. Clarification of drone stigma and misconceptions 4. Implementation method for Project Dare to Fly 5. Rules and regulations for UAV operation in Namibia
Confirmed outcome after training	<p><u>Awareness</u></p> <ol style="list-style-type: none"> 1. Consciousness of drone technology 2. Remote pilot certification 3. Safe and authorised operation of RPAS in Namibia <p><u>Project Launch</u></p> <ol style="list-style-type: none"> 1. Namibia Flying Labs brand awareness 2. Project Dare to Fly; action plan, curricula, goals, as well as monitoring and evaluation system cognisance
Eventual next steps	<p><u>Youth Training</u> (DJI Robomaster S1, plus Robolink CoDrone Pro, ROKIT Smart and Zumi)</p> <ol style="list-style-type: none"> 1. Aerodynamics 2. Artificial Intelligence 3. Drone components and basic operation 4. Electronics 5. Meteorology 6. Navigation 7. Risk assessment 8. Robotics use cases <p>Educators (selected teachers) to receive the same training as the learners</p>
PARTICIPANTS	
Profiles and number of participants	<ol style="list-style-type: none"> 1. Staff from Government (30 teachers)

Name of participants' organisations	Academia Secondary School
Gender ratio	20 female (67%) and 10 male (33%) - Female : Male = 2 : 1
Who paid for the training?	<ol style="list-style-type: none"> 1. Kanie Supply and Distribution Chain 2. Namibia Flying Labs 3. US Embassy
Participant fee rate (if applicable)	Not applicable
Scholarships offered?	All participants received full scholarships
CONTENT	
Training components	<ol style="list-style-type: none"> 1. 100% Theory
Training resources used	<p><u>Hardware</u></p> <ol style="list-style-type: none"> 1. Data projector 2. Laptop computer 3. Sound system <p><u>Resources</u></p> <ol style="list-style-type: none"> 1. Quiz material 2. Training booklets <p><u>Visual Aids</u></p> <ol style="list-style-type: none"> 1. Banner 2. DJI Phantom 3 3. DJI Phantom 4 Pro 4. Flyers <p><u>Link:</u>https://drive.google.com/drive/folders/15dWViTyskQvwrCo_2n9wneUla866lj4?usp=sharing</p> <p>(Introduction to Namibia Flying Labs, Project Dare to Fly, Introduction to Drone Technology, Operation of RPAS in Namibia and Remote Pilot Certification presentations)</p>
Approaches and methods used	<ol style="list-style-type: none"> 1. Participants received: <ul style="list-style-type: none"> • A chance to familiarise themselves with the provided DJI drones • A quiz to complete and submit, as a means to measure the level of grasping and retention of taught concepts (27/30 participants submitted the quiz for grading)