

Drone Technology Training with Students at New Horizons Tech Fest



Students engaging with Dominican Republic Flying Labs Drone Technology and STEM Career material



Dominican Republic Flying Labs promotional stand at New Horizons Tech Fest



Outstanding collaboration of tech sector professionals at New Horizons Tech Fest

OVERVIEW	
Flying Labs	Dominican Republic Flying Labs
Location	Santo Domingo, Dominican Republic
Date	April 12, 2024 (1 day)
Length (number of days)	3 Hours
Sector program (optional)	STEM/Youth
Format	In-Person
Co-organizer if applicable	Centro de Innovación de Drones; Parque Cibernético; Dominican Republic Flying Labs
SDGs	GOAL 4: Quality Education GOAL 9: Industry, Innovation and Infrastructure GOAL 17: Partnerships to achieve the Goal

SCOPE & OUTCOMES	
Type of training	Youth/STEM training
Goal of the training	To train and empower youth and the workforce of the future
Expected outcome for participants	To learn about drone operations, safety, regulations, uses and the future potential of drone technology.
Confirmed outcome after training	Students had the opportunity to explore the world of drones through the use of different models and operation demonstrations, which provided hands-on experience and brought interest in the further study of STEM careers.
Eventual next steps	<ol style="list-style-type: none"> 1. Continue supporting schools engaging with young students in drone technology and STEM. 2. Schedule new workshops and outreach activities.

PARTICIPANTS	
Profiles and number of participants	School children (14-18 years old)

Name of participants' organizations	<ul style="list-style-type: none"> • Colegio Bilingue New Horizons • New Horizons Bilingual School
Gender ratio	60 participants, 1:1 (30 girls and 30 boys)
Who paid for the training?	Free training
Participant fee rate (if applicable)	N/A
Scholarships offered?	No

CONTENT	
Training components	<ol style="list-style-type: none"> 1. Introduction to the drone industry 2. Drone operation, safety, regulations and uses 3. Future potential use of drone technology 4. Drone Flight Demonstration
Training resources used	<ol style="list-style-type: none"> 1. Powerpoint Presentation 2. Drones Demonstration and Exhibition <ol style="list-style-type: none"> a. DJI M300 with H20T Camera b. DJI Inspire 2 c. DJI Mavic 2 PRO. 3. Thermal Mapping with DJI Matrice 300 and H20T camera
Approaches and methods used	<ol style="list-style-type: none"> 1. The training began by analyzing the event objectives. 2. The content was adapted according to the students age to also ensure there was meaningful engagement. 3. The training was designed to be hands-on, integrating theoretical knowledge and practical experiences. 4. Opportunities were provided for participants to apply the theoretical knowledge into practical scenarios. 5. Tasks were formulated to solve real-world problems using learned concepts and operation knowledge acquired.