

DOWNTOWN BALTIMORE, MARYLAND

COURSE: GAM101

FUNDAMENTAL FLIGHT AND INTRODUCTION TO THE DRONE INDUSTRY

Join us for this 2-Day Course taught by the drone pilot instructors at **Global Air Media**. This course is designed to provide the most relevant information to new pilots operating drones. Whether you are a hobbyist or looking to make this a career, this course will give you the tools needed to transform yourself from a novice into a confident operator. Register today at www.GlobalAirMedia.com!

Sessions: Day 1 Fundamental Flight (Beginners) – August 13th

Day 2 Comprehensive Flight and Site Techniques (Intermediate/Advanced) - August 14th

Venue: [The CO-OP Workspace](#), 12 W. Madison Street, Baltimore, MD 21201

COURSE: GAM101

FUNDAMENTAL FLIGHT AND INTRODUCTION TO THE DRONE INDUSTRY

WHO WE ARE

Global Air Media is a full service, minority owned and operated Unmanned Aerial Systems (UAS), or drone, company. Based in Baltimore, MD, USA, the company was formed by a team of qualified professionals with years of experience in construction, engineering, and project management. **Our mission** is to conduct, develop, and validate UAS operations through innovative technology, improved safety and project efficiency. Our passion and attention to detail continues to separate us in this new and emerging industry.

WHY TRAIN WITH GLOBAL AIR MEDIA?

Safety, Efficiency, and Innovation: We are prepared with the required skill, knowledge, and equipment to meet the growing innovation in the UAS industry. Our course goes beyond basic flight theory, and focuses on the most relevant, up to date, and real-world information.

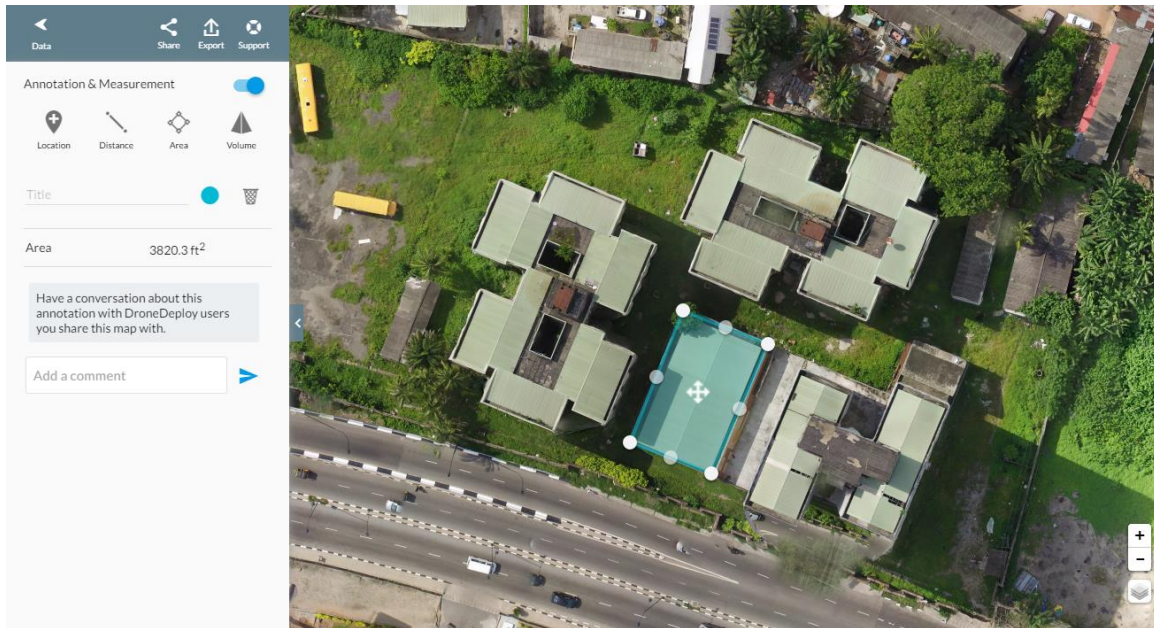
Course Title: Fundamental Flight and Introduction to the Drone Industry

Course Overview: You will acquire valuable skills for piloting your DJI (or similar) drone with practical tools for improvement. We will teach you the different control modes, safety features, avoiding flyaways, and how to apply **for your drone operator's license (Part 107)**. This course also includes a comprehensive introduction to hardware, software and key techniques to use for success in emerging industry. Students will be engaged in the wealth of knowledge and real-world experiences this course teaches, which delivers actionable insight into business opportunities for drone-based photogrammetry and orthomosaic photography.

GOALS AND OBJECTIVES

THIS COURSE WILL TEACH YOU:

- The concepts and history of drone use and their present day applications
- Helpful tips, tricks, and safety to consider while surveying project sites
- Understand orientation, LOS and FPV Flights
- How to maintain a safe working environment using pre-flight checks, accurate planning, and efficient implementation.
- How to apply for your drone operator's license (Part 107)



2D REAL-TIME ORTHOMOSAIC MAP – IKOYI, LAGOS, NIGERIA

COURSE SYLLABUS

DAY 1 – Module 1

Pre-Flight and Safety (General safety, onsite safety training/checklist, operational limits)

In-Flight Concepts and Movements – Yaw (rotational motion), Pitch (forward, backward) Roll (right and Left) Thrust (forward)

UAS 101 – Learn about drone history and the different types of commercial drones, parts, components, sensors, basic forces of flight and the science behind drones

Flight Modes: GPS/Attitude/Manual

Compass Calibration: Relationship Between GPS-WAAS

Preflight inspection and maintenance

-Real World Applications, Drone Law: Current State of Legislation & Privacy Issues

Type of Drones on the Market

<p><u>DAY 1- Module 2</u></p>	<p>Theory and Concepts (Mapping Concepts, History of Photogrammetry)</p> <ul style="list-style-type: none"> - Understanding Your Drone - Camera and Video Settings - Tips on editing pictures and video - Global positioning system (GPS) - Lesson in Various Commercial Applications - Payload Options - Autonomous/Manual Flight - LOS and FPV Flights - The sport of Drone Racing and Leagues
<p><u>DAY 2 – Module 3</u></p>	<p><u>Application and Practice</u></p> <p>Theory and Concepts (Mapping Concepts, History of Photogrammetry, Review side-lap and overlap settings, review structure scanning concepts)</p> <p>and Hardware</p> <p>Mapping Hardware</p> <p>Drone Deploy – Online Data Processing</p> <p>Intro to Self-Processing – Photoscan and Pix4D</p> <ul style="list-style-type: none"> - On Site Demo, Flight modes. Various Outputs: <ul style="list-style-type: none"> Orthomosaic Map, 3D Map, Elevation Map, NDVI Map - Spatial awareness and emergency maneuvers - Distance and Area Measurements, Volumetric measurements, elevation maps, NDVI imaging and more - Evaluate, measure, and Analyze results <p>Troubleshooting faulty maps</p> <p>Ground Control Points</p>
<p><u>DAY 2 – Module 4</u></p>	<ul style="list-style-type: none"> - Applying for your Part 107 License Commercial Operator’s License
<p><u>DAY 2 – Module 5</u></p>	<ul style="list-style-type: none"> -Final Assessment and Certificate Presentation



TRAINING WILL REFERENCE THE DJI QUADCOPTER DRONE



LEARN THE PROCESS TO SURVEY INDUSTRIAL AND CONSTRUCTION SITE WITHIN MINUTES!

WHO IS THIS COURSE FOR?

- New drone pilots!
- Aspiring drone pilots and businesses that want to expand their product base to offer more than just photography and videography
- Surveyors who want to innovate their product by integrating UAS with their existing survey methods
- Existing experts in mapping and modeling who can benefit from using UAS to capture data in a cost effective way
- Individuals and businesses who can benefit from receiving up-to-date actionable information at a relatively low cost
- Marketing and sales departments who can benefit from showing sites and buildings in a cutting edge way to prospective clients during pitches and presentations



3D MAPPING OUTPUT

TRAINING DATES: August 13-14th, 2016

TRAINING VENUE: [The CO-OP Workspace](#) 12 W. Madison Street, Baltimore, MD 21201

COURSE COST: One session for \$175.00 or both sessions for \$300.00

OTHER AVAILABLE COURSES BY GLOBAL AIR MEDIA:

- GAM 103: Build-A-Drone Workshop (Beginners)
- GAM 105: Build-A-Drone Workshop (Advanced)

Be sure to visit www.GlobalAirMedia.com to sign up for our upcoming class!