Training Course on Aerial Photography and Videography with Drones

Professional Development Training Course Outline

Category	Drone Technology	**Duration**	10 Days
Base Fee	$6,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Unlock breathtaking perspectives and capture stunning visuals from above with our comprehensive training course on **Aerial Photography and Videography with Drones**. Training Course on Aerial Photography and Videography with Drones is meticulously designed to equip you with the fundamental knowledge and practical skills necessary to excel in this rapidly evolving field. From understanding drone technology and flight regulations to mastering advanced camera settings and cinematic shooting techniques, you'll gain a competitive edge in capturing unique angles and delivering high-quality aerial content. Embrace the power of unmanned aerial vehicles (UAVs) and transform your creative vision into reality, whether for artistic expression, professional applications, or commercial endeavors.

This cutting-edge course delves into the intricacies of **drone operation**, **aerial cinematography**, and **photogrammetry**, providing a holistic understanding of the entire workflow. You will learn about mission planning, flight safety protocols, legal considerations, and post-production techniques to create compelling narratives and visually impactful stories. Our expert instructors will guide you through hands-on exercises and real-world case studies, ensuring you develop the confidence and proficiency to capture professional-grade aerial imagery and video. Join us and elevate your visual storytelling capabilities to new heights.

Programme Curriculum

Training Course on Aerial Photography and Videography with Drones

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Course Duration

10 days

Course Objectives

Upon successful completion of this training course, participants will be able to:

1. Understand the **fundamentals of drone technology** and its applications in aerial imaging.
2. Comply with **drone regulations and airspace management** for safe and legal operations.
3. Master **pre-flight checks and maintenance procedures** to ensure drone airworthiness.
4. Develop proficiency in **basic and advanced drone flight maneuvers** for optimal image capture.
5. Learn to utilize various **camera settings and controls** for aerial photography and videography.
6. Apply principles of **composition and framing** to create visually appealing aerial shots.
7. Understand the impact of **lighting and weather conditions** on aerial imaging.
8. Execute effective **mission planning and flight path design** for specific shooting requirements.
9. Capture high-quality **aerial photographs** for diverse applications.
10. Produce compelling **aerial videos** using cinematic techniques and camera movements.
11. Explore the basics of **aerial data collection and photogrammetry**.
12. Implement efficient **post-production workflows** for editing aerial photos and videos.
13. Understand the **ethical considerations and best practices** in drone-based imaging.

Organizational Benefits

- Capture unique and engaging aerial visuals for marketing campaigns, website content, and social media, creating a stronger brand identity and attracting a wider audience.
- Utilize drones for site inspections, progress monitoring, surveying, and asset management, leading to faster data collection, reduced costs, and improved decision-making.
- Offer aerial photography and videography services to clients, expanding your service portfolio and creating new business opportunities.
- Stay ahead of the curve by adopting cutting-edge drone technology and offering innovative visual solutions that differentiate you from competitors.
- Employ drones for tasks that are hazardous or difficult for humans to access, improving worker safety and reducing potential risks.

- Capture comprehensive aerial documentation of projects, events, or infrastructure, providing valuable visual records for analysis and reporting.
- Create compelling visual narratives for corporate videos, documentaries, and promotional content, engaging audiences on a deeper level.
- Demonstrate a commitment to innovation and technology, making your organization more attractive to skilled professionals.

Target Audience

1. Aspiring Aerial Photographers and Videographers.
2. Professional Photographers and Videographers
3. Real Estate Professionals
4. Construction and Infrastructure Managers
5. Marketing and Advertising Agencies.
6. Surveyors and GIS Professionals.
7. Journalists and Documentary Filmmakers
8. Hobbyists and Drone Enthusiasts.

Course Outline

Module 1: Introduction to Drones for Aerial Imaging

- Overview of drone technology and its evolution.
- Different types of drones and their applications in imaging.
- Key components of a drone: airframe, motors, propellers, battery, gimbal, camera.
- Understanding remote controllers and communication systems.
- Introduction to drone software and flight control apps.

Module 2: Drone Regulations and Airspace Management

- Overview of national and local drone regulations (e.g., FAA, EASA, KCAA).
- Understanding airspace classifications and restricted zones.
- Procedures for drone registration and licensing.
- Rules for visual line of sight (VLOS) and beyond visual line of sight (BVLOS) operations.
- Importance of safety protocols and risk assessment.

Module 3: Pre-Flight Procedures and Maintenance

- Comprehensive pre-flight checklist and inspection procedures.
- Battery care and management for optimal flight time and safety.
- Propeller inspection and maintenance/replacement.
- Gimbal calibration and ensuring camera stability.
- Software and firmware updates for drone and controller.

Module 4: Basic Drone Flight Operations and Maneuvers

- Safe takeoff and landing procedures in various environments.
- Mastering basic flight controls: throttle, pitch, roll, yaw.
- Performing essential flight maneuvers: hovering, forward/backward flight, sideward flight, rotation.
- Understanding altitude control and maintaining stable flight.
- Emergency procedures and handling unexpected situations.

Module 5: Camera Settings and Controls for Aerial Imaging

- Understanding camera sensors, resolution, and image quality.
- Controlling aperture, shutter speed, and ISO for optimal exposure.
- Working with different lens types and their impact on field of view.
- Understanding white balance and color profiles for accurate color rendition.
- Introduction to photo and video file formats (JPEG, RAW, MP4, MOV).

Module 6: Principles of Composition and Framing in Aerial Shots

- Applying rules of composition (e.g., rule of thirds, leading lines, symmetry) from an aerial perspective.
- Utilizing different shot types (e.g., wide shot, medium shot, close-up) for visual storytelling.
- Understanding the impact of altitude and perspective on composition.
- Creating dynamic and engaging aerial frames.
- Utilizing natural elements and landscapes effectively in compositions.

Module 7: Understanding Light and Weather for Aerial Imaging

- Identifying different types of natural light and their effects on aerial shots.
- Planning flights based on optimal lighting conditions (golden hour, blue hour).
- Understanding the impact of clouds, shadows, and haze on image quality.
- Assessing weather conditions and their impact on flight safety and image capture.
- Utilizing filters to enhance aerial photos and videos.

Module 8: Mission Planning and Flight Path Design

- Defining objectives and requirements for aerial photography and videography missions.
- Utilizing mapping software and apps for flight planning.
- Creating efficient and safe flight paths for capturing desired shots.
- Setting waypoints, altitudes, and camera angles for automated flights.
- Considering terrain, obstacles, and airspace restrictions during mission planning.

Module 9: Capturing High-Quality Aerial Photographs

- Techniques for capturing sharp and well-exposed aerial stills.
- Utilizing different shooting modes (single shot, burst mode, intervalometer).
- Understanding focus techniques for aerial photography.
- Capturing panoramic and HDR (High Dynamic Range) aerial images.
- Best practices for minimizing blur and maximizing detail.

Module 10: Producing Compelling Aerial Videos

- Understanding cinematic camera movements from an aerial perspective (e.g., reveal shots, orbit shots, tracking shots).
- Techniques for smooth and stable aerial video capture.
- Utilizing different frame rates and resolutions for video production.
- Capturing establishing shots, transitions, and storytelling sequences.
- Understanding the importance of shot duration and pacing in aerial videography.

Module 11: Introduction to Aerial Data Collection and Photogrammetry

- Overview of aerial surveying and mapping applications using drones.
- Understanding the principles of photogrammetry and 3D modeling.
- Capturing data for orthomosaics, digital elevation models (DEMs), and point clouds.
- Introduction to software for processing aerial data.

- Applications of aerial data in various industries (e.g., agriculture, construction, environmental monitoring).

Module 12: Post-Production Workflows for Aerial Imagery

- Organizing and managing aerial photo and video files.
- Basic photo editing techniques for enhancing aerial images (e.g., exposure correction, color adjustments, sharpening).
- Basic video editing techniques for aerial footage (e.g., trimming, color correction, stabilization).
- Adding music, sound effects, and text to aerial videos.
- Exporting and delivering aerial photos and videos in various formats.

Module 13: Ethical Considerations and Best Practices in Drone Imaging

- Understanding privacy concerns and regulations related to drone use.
- Responsible drone operation and respecting airspace and property rights.
- Data security and management of captured aerial information.
- Professional conduct and client communication in the drone imaging industry.
- Future trends and advancements in aerial photography and videography with drones.

Module 14: Advanced Aerial Cinematography Techniques

- Mastering complex aerial camera movements and shot choreography.
- Utilizing advanced flight modes and intelligent flight features.
- Working with gimbals for smooth and cinematic footage.
- Implementing storytelling techniques through aerial visuals.
- Collaborating with ground-based camera crews and talent.

Module 15: Commercial Applications and Business Development in Aerial Imaging

- Identifying potential markets and clients for aerial photography and videography services.
- Developing a portfolio and showcasing aerial work effectively.
- Pricing strategies for aerial imaging services.
- Legal and insurance considerations for commercial drone operations.
- Marketing and promoting your aerial imaging business.

Training Methodology

- **Interactive Lectures and Presentations:** Engaging sessions covering the fundamental principles of drone technology, regulations, camera operations, and aerial imaging techniques.
- **Practical Flight Simulations:** Utilizing drone simulators to provide a safe and controlled environment for practicing flight maneuvers and camera controls.
- **Hands-on Flight Training:** Supervised flight sessions with training drones, allowing participants to gain practical experience in takeoff, landing, basic and advanced flight maneuvers, and camera operation.
- **Real-World Case Studies and Project-Based Learning:** Analyzing successful aerial photography and videography projects and engaging in practical assignments to apply learned concepts.
- **Individual and Group Exercises:** Activities designed to reinforce understanding and develop practical skills in mission planning, shot composition, and post-production techniques.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

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