GETTING YOUR COMMERCIAL DRONE LICENSE

14 CFR PART 107 – COMMERCIAL USE OF UNMANNED AERIAL VEHICLES

Scott Jeffrey, GISP
Doug Williams, PhD

Community College of Baltimore County
Community College of Baltimore County
The Agenda

- What Is A Drone License And What Does It Mean?
- The Drone Licensing Experience:
  - What to Expect and How to Prepare
  - The Licensing Process: Coursework and Flight Training
  - The FAA Test
  - Applying for Your License
What is a Drone License?

The FAA Remote Pilot Certificate (aka Drone License) allows operators to fly a UAS for work, business, or non-recreational reasons.
Why Get a Drone License?

- Consider this.....
- Licensed (Commercial) Drone Operation vs. Hobbyists
- Understanding the Flight Environment
  - Where can you fly?
    - Congested Air Space (Class A-G Airspace)
    - Sensitive Sites
    - Special Use Areas
Why Get a Drone License?

- **For Businesses — Licensing is Crucial…..**
  - Understanding Liability
    - Liability Insurance for Flight Operations
    - Liability Insurance for Drones
    - Liability Insurance for Remote Pilots and Remote Observers
  - Public Relations and Operations
  - Understanding the Limitations of Being a Commercial Drone Operator
    - Legal Obligations (FAA, Local, State And Federal Laws, etc.)
    - Flight Operations (must have 2 people)
  - Operational Waivers
Getting Your Drone License

- Coursework and Flight Training
- Training Options: Who, What, When, Where
- What you need to learn
  - [AirNav.com](https://www.airnav.com)
  - [Sectional Flight Map - BWI/DC Region](https://www.airnav.com/sectional)
  - [Aviation Imparct Locations - BWI/Thurgood Marshall Airport](https://www.aviationimpact.com/locations/bwi)
Getting Your Drone License

- CCBC Prof. Pilot – Unmanned Aircraft Systems degree
- CCBC 2-day “boot camp”

Eligibility
- Anyone 16 years of age or older
- Anyone able to read, speak, write, and understand English
  - Exceptions may be made if the person is unable to meet one of these requirements for a medical reason, such as hearing impairment
- Be in a physical and mental condition to safely operate a small UAS
- Current pilot: pass Aeronautical Knowledge Test on FAA website
- Non-pilot: pass the initial Aeronautical Knowledge Test at an FAA-approved Airman Knowledge Testing Center

Does the test include a flying portion?
- No, you will not be required to operate a drone as part of the exam
The FAA Test

KNOWLEDGE AREAS ON THE FAA REMOTE PILOT EXAM

The Unmanned Aircraft General – Small Airman knowledge test covers the following knowledge areas:

1. Applicable regulations relating to small unmanned aircraft system rating privileges, limitations, and flight operation;
2. Airspace classification, operating requirements, and flight restrictions affecting small unmanned aircraft operation;
3. Aviation weather sources and effects of weather on small unmanned aircraft performance;
4. Small unmanned aircraft loading;
5. Emergency procedures;
(6) Crew resource management;
(7) Radio communication procedures;
(8) Determining the performance of small unmanned aircraft;
(9) Physiological effects of drugs and alcohol;
(10) Aeronautical decision-making and judgment;
(11) Airport operations; and
(12) Maintenance and preflight inspection procedures.

- All test questions are objective and multiple-choice.
- The minimum passing score is 70 percent.
- The UAG test contains 60 questions and you are allowed 2 hours to complete.
The FAA Test

- FAA Regulations — 15-20%
- Airspace and Flight Limitations — 8-15%
- Weather — 11-16%
- Drone Loading and Performance — 7-11%
- Flight Operations — 13-18%
Applying For Your License

- Register and login to FAA Integrated Airman Certification & Rating Application IACRA
- Fill out application (FAA Form 8710-13) to get license
- FAA will issue a temporary license once the TSA security background check has been completed
- A permanent license is sent via mail after internal processing is complete
- Your license must be renewed every 24 calendar months
Learning to Fly

- What kind of drone to get started?
- $ 2,000+
- DJI Spark – fly-more kit
Helpful Resources

- [www.faa.gov/uas](http://www.faa.gov/uas)
  - Study guides, regulatory info, “how to”

- [www.faasafety.gov](http://www.faasafety.gov)
  - Knowledge Test for current pilots

- [www.aopa.org](http://www.aopa.org)

- YouTube
  - Study sessions, drone reviews

- Online Courses
Contact Us

- Scott Jeffrey, GISP
  Community College of Baltimore County
  sjeffrey@ccbc.edu

- Doug Williams, Aviation Program Director
  Community College of Baltimore County
  dwilliams@ccbc.edu
Questions and Discussion