

# 1. Regulations

## *1.1 General Regulations*



# Structure & Formatting Reminder

This presentation is provided as a reference to help you prepare for the your exam. It seeks to go beyond memorization and provide explanation and rationale.

While this reference considers many of the points covered in the exam, given the breadth it is in no way exhaustive. It is suggested to consult a variety of resources when preparing for the exam.

Text that is marked in **YELLOW** has a high probability of being referenced directly in one of the exam's nearly 400 possible questions.

Take the quiz at the end to gauge your understanding.



# 1.1 - FAA 14 CFR Part 107 and sUAS Operations

What is the **FAA**?



## Federal Aviation Administration

FAA

A US Government transportation agency that regulates all aspects of civil aviation in the National Airspace System.



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# 1.1 - FAA 14 CFR Part 107 and sUAS Operations

## What is the **NAS**?



FAA

- The NAS is a network of both controlled and uncontrolled airspace, both domestic and oceanic.
- There are 20 distinct areas.
- It includes air navigation facilities, equipment and services, airports and landing areas, aeronautical charts, information and services, rules and regulations, procedures and technical information, and manpower and material.





# 1.1 - FAA 14 CFR Part 107 and sUAS Operations

## What is 14 CFR Part 107?

Title 14 Code of Federal Regulations (**14 CFR**) **Part 107** details the Federal Aviation Administration (FAA) rules for operating **small unmanned aircraft systems (sUAS)** in the **National Airspace System (NAS)** for purposes **other than hobby and recreation**.



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Bloomberg

= Part  
107



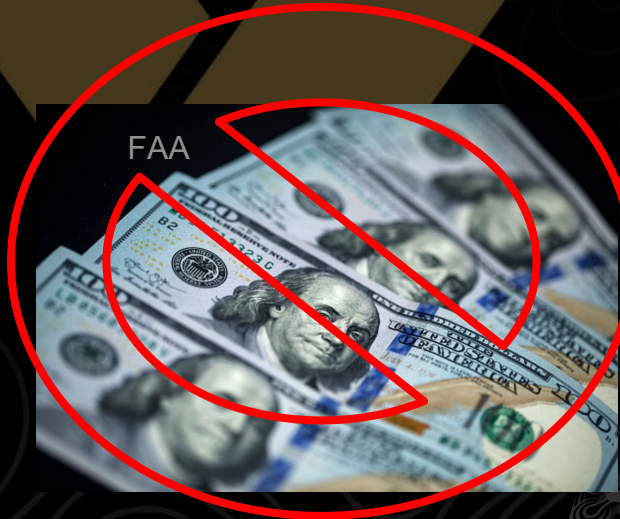
# 1.1 - FAA 14 CFR Part 107 and sUAS Operations

## What is Part 48?

Flying an sUAS for hobby and **recreational** purposes falls under 14 CFR **Part 48**.



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Part  
48



Q: What is the difference between Part 107 and Part 48?



# What is the difference between Part 107 and Part 48?

Part 107 covers commercial operations

Part 48 covers recreational operations





# 1.1 - Definitions used in FAA 14 CFR Part 107


What types of aircraft meet the sUAS designation?

- Weight of **less than 55 pounds** (including all payload).
- Are operated without the possibility of direct human intervention from within or on the aircraft.



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What is the heaviest UAV that can typically be flown under Part 107?



# What is the heaviest UAV that can typically be flown under Part 107?

Anything under 55 pounds



# 1.1 - Definitions used in FAA 14 CFR Part 107

What types of aircraft are **exempt** from the sUAS designation?

- Model Aircraft
- Amateur Rockets
- Balloons
- Kites



\* Follow Regulations in 14 CFR 101.41





## 1.1 - Inspection, Testing, and Demonstration of Compliance

## When flying a UAV under Part 107 you must:

- Have a **copy of your remote pilot certificate** in hand.
- Be willing to **display your certificate and identification** to a FAA Administrator, Federal, State, or Local law enforcement, National Transportation Safety Board or Transportation Security Administration representative.





# 1.1 - Inspection, Testing, and Demonstration of Compliance

When flying a UAV under 107 you must:

- Allow an **administrator to test or inspect** the aircraft, pilot, or person operating the controls to **determine compliance**.



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# 1.1 - Inspection, Testing, and Demonstration of Compliance

When flying a UAV under 107 you must:

- Provide a **Declaration of Compliance** (only when operating via a **waiver over humans**) and allow inspection of UAS. More on waivers later.



# 1.1 - Accident Reporting

Only accidents that meet the following requirements need to be reported to the FAA:

- **Serious injury** (hospitalization, head trauma, broken bones, sutures)
- **Loss of consciousness**
- **Damage in excess of \$500 to repair OR replace** the property



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Does crashing your \$2,000 drone meet the threshold for an FAA report?



# Does crashing your \$2,000 drone meet the threshold for an FAA report?

While it does exceed the \$500 threshold, your own personal property is exempt





# Unit 1 Regulations – 1.1 Review Quiz

- [1.1 - General Regulations - QUIZ](#)
- This quiz contains 21 questions.
  - You may take it as many times as you like.
  - The order of questions are randomized each time.
  - The large majority of the questions are worded exactly as they appear on the exam.

