

Phase 3 - Class 14 Offenses Involving Alcohol or Drugs**91.17, 61.15**

1. **What is the alcohol limit?**
2. **How many hours after the last alcoholic drink?**
3. **What are the possible penalties from flying under the influence?**
4. **How many days after a driving DUI must you report the issue to the FAA?**
5. **What is your understanding of a "motor vehicle action"?**
6. **Where do you send the report?**

Phase 3 - Class 14 Standard Category Equipment Requirements 91.205

Note: This is the required equipment list for all airplanes. Note the items for multi-engine airplanes, like a tachometer for each engine. You do not need to memorize this list but should be familiar with its contents should you rent an airplane that you find missing some of these items. Also, there are additional requirements when flying at night.

1. **An F35 Bonanza was manufactured in 1955 – is it required to have shoulder harnesses?**

Phase 3 - Class 14 Required Maintenance Responsibility**91.405**

Note: There are a number of players involved in the reliable maintenance of an airplane. Read the following scenario and pick out the players along with their responsibilities.

Joe, the local car dealer, buys a new airplane and puts it on lease back with ABC flight school.

Mary, a high school student, decides to take flying lessons with Sam, a flight instructor with ABC flight school. The airplane has been flying a few weeks and is tied down on the flight line. On Mary's third flight she notices the altimeter is not correct and cannot be adjusted properly. She informs Sam, her instructor.

- a) Sam reports the problem to ABC.
- b) ABC calls Joe, the owner, and informs that his airplane has been grounded due to the altimeter problem.
- c) Joe calls his mechanic, FIXIT FAST, and tells them to get the altimeter fixed.
- d) FIXIT FAST installs a new altimeter and makes an entry in the aircraft log. FIXIT FAST calls in a specialist, JOE PITOT/STATIC.

- e) JOE PITOT/STATIC runs tests on the system and makes a log entry, signs it and returns the airplane to service.
- f) ABC has Joe, a private pilot, take a flight in the airplane to verify the altimeter.
- g) Joe makes an entry in the aircraft log and signs it.
- h) Mary comes out to fly the airplane and completes her pre-flight. Her instructor asks her if the airplane is airworthy.
- i) with ABC to see if there are any other squawks. Mary then informs her instructor the airplane is ready to fly.

1. What should Mary do if the altimeter is still not reading properly?

Phase 3 - Class 14 ATC Transponder Tests and Inspections

91.413

Note: The majority of transponders have mode C capability - meaning they can report the pressure altitude information to ATC. They do not usually have the ability to determine the pressure altitude. This is usually accomplished by another little box called an altitude encoding altimeter. It is set permanently to 29.92 inches of Hg. The pressure altitude is sent to the transponder and relayed to ATC. ATC applies the local altimeter setting (barometric pressure at sea level) to determine your altitude (this is done by their computer automatically). This entire system must be checked by a specialist every 24 calendar months and is usually coordinated with the pitot / static, altimeter checks in 91.411. All of this is recorded by an entry in the aircraft log. It is dated, signed, inspector ID numbered, and returned to service.

1. Who are the players involved when ATC tells you that your transponder is not working properly and you are to turn it off?