Code of Federal Regulations

Title 14 Chapter 1 Federal Aviation Regulations Parts 1, 61, 91 and Title 49 Part 830 (NTSB)

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Part 1: Definitions and Abbreviations

1.1 DEFINITIONS:

Night means the time between the end of evening civil twilight and the beginning of morning civil twilight, as published in the American Air Almanac, converted to local time.

(**NOTE:** This is for logging night time. Also see §61.57 for night currency requirements.)

1.2 Abbreviations and Symbols:

Not required here. If desired see http://a257.g.akamaitech.net/7/257/2422/14m ar20010800/edocket.access.gpo.gov/cfr_200 3/pdf/14cfr1.2.pdf

PAR Part 61: Pilot Certification

61.3 **REQUIREMENTS FOR CERTIFICATES:** To act as a pilot in command you must have a <u>current pilot certificate</u> in your <u>possession</u> and photo identification. A valid medical certificate is also required.

61.5 AIRCRAFT CATEGORIES AND CLASSES:

For certification of pilots, category refers to a kind of aircraft. i.e. balloon,, airplane, helicopter. Your category is AIRPLANE: There are 4 classes of AIRPLANES:

- (1) <u>Single-engine land</u>
- (2) Multi-engine land
- (3) Single-engine sea
- (4) Multi-engine sea

61.15 ALCHOL AND DRUGS:

Eight hours between bottle and throttle for pilot and required crew. Less than .04% blood alcohol.

(Also see 91.17 http://a257.g.akamaitech.net/7/257/2422/14m ar20010800/edocket.access.gpo.gov/cfr_200 3/pdf/14cfr91.17.pdf)

61.16 ALCHOL AND DRUGS:

Eight hours between bottle and throttle for pilot and required crew. Less than .04% blood alcohol.

61.23 MEDICAL CERTIFICATES-DURATION

The minimum medical certificate required by a student or private pilot is a THIRD CLASS medical certificate. THIRD CLASS medical certificate <u>expires</u> at the <u>end of the 24th</u> <u>calendar month</u> after it was issued if <u>under 40</u> years of age when issued, otherwise <u>60</u> <u>calendar months</u>.

SECOND CLASS—12 calendar months FIRST CLASS—12 calendar months if <u>under 40</u> years of age when issued, otherwise 6 calendar months.

61.31 High Performance and Complex High Performance—More than 200 horsepower Complex—Retractable gear, variable pitch

prop, flaps.

You <u>must</u> have received instruction and have log entry.

61.51 LOGGING FLIGHT TIME

You <u>must log</u> the <u>flight time</u> required for a <u>higher certificate</u> or rating, and to show <u>recent flight experience</u>.

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3 takeoffs and landings at towered airport

61.57 BIENNIAL FLIGHT REVIEW & RECENT FLIGHT EXPERIENCE:

Every <u>24 calendar months</u> you must <u>pass and</u> <u>log a flight review</u> given by a flight instructor or FAA inspector.

You <u>may not carry passengers</u> unless you have <u>logged 3 takeoffs and landings</u> (touch & gob's in tricycle gear) within the past <u>90 days</u> in the <u>same category and class</u>.

NIGHT EXPERIENCE:

To <u>carry passengers at night</u> (1 hour after official sunset until 1 hour before official sunrise) you must have <u>logged 3 takeoffs and</u> <u>landings TO A FULL STOP</u> during night time in the <u>same category and class</u>.

61.60 CHANGE OF ADDRESS:

You must notify the FAA of any permanent change of address <u>within 30 days</u> of your move.

61.69 Glider Towing:

Need 100 hours of pilot time logged in category, class, type or need 200 hours total pilot time

Need three actual or simulated glider tows, or made three flights as PIC of a towed glider.

61.109: FLIGHT TIME REQUIRED FOR PRIVATE PILOT CHECKRIDE:

<u>40 Hours total time</u> including:
<u>20 Hours Dual Instruction</u> with
3 hrs dual cross-country
3 hrs night dual (one greater than 100 nautical miles and 10 night landings)
3 hours on instruments
3 hrs check ride preparation
<u>10 Hours Solo Flight Time</u> with
10 hrs in airplanes
5 hrs solo cross-country;
one cross-country at least 150 nautical
miles with full stop landings at minimum of three points with one leg at least 50 nautical miles.

61.113: PRIVATE PILOT PRIVILEGES AND LIMITATIONS:

- Unlimited solo privileges
- Can carry passengers and cargo for pleasure or business but not for hire
- Can fly incidental to employment
- May not pay less than the pro rata share of the operating expenses of flight with passengers (fuel, oil, airport, rental)
- Passengers may pay entire flight if donated to a charity that sponsors the flight

61.118 PRIVATE PILOT CERTIFCATE LIMITATIONS:

You may <u>not carry passengers or cargo for</u> <u>compensation or hire</u>. However, you may:

- (1) Fly in connection with your business if the flight in only incidental to your business.
- (2) <u>Share expenses</u> of the fight with your passengers.
- (3) Demonstrate an airplane to a customer if you are an aircraft salesman and have at least 200 hours total time.

FAR Part 91: GENERAL OPERATION & FLIGHT RULES

91.3 PILOT RESPONSIBILITY:

The <u>pilot in command</u> is <u>responsibility for all</u> <u>phases</u> of the operation of his aircraft.

In an <u>emergency</u> you <u>may deviate</u> from FARS but must, <u>if so requested</u>, submit a <u>written report</u> to the Administrator.

91.7 AIRPLANE AIRWORTHINESS

The pilot is <u>responsible</u> for the <u>airworthiness</u> of his airplane. You <u>may not fly</u> unless your plane is in a <u>condition for safe flight</u>.

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91.9 OPERATING LIMITATIONS:

You <u>must comply</u> with the <u>operating</u> <u>limitations</u> for your airplane, which <u>must be</u> <u>available in the cockpit</u> in the form for placard, instrument markings, listings, or an Approved Airplane Flight Manual.

91.17 LIQUOR AND DRUGS:

<u>No flying within 8 hours after drinking liquor</u> or consuming <u>drugs</u> for pilot and required crew, and <u>less than .04%</u> blood alcohol.

(Also see 61.15 and 61.16)

91.83 CLOSING VFR FLIGHT PLANS:

If you file a flight plan, you must cancel or close it with the nearest FSS or ATC facility.

91.103 PREFLIGHTACTION.

Before each flight you MUST familiarize yourself with ALL available information concerning your flight. For flight NOT in vicinity of an airport, your info must include ALL of the following:

1) Runway Lengths

- 2) Aircraft Performance
- 3) Weather reports and forecasts
- 4) Fuel requirements (30 minutes reserve in day; 45 minutes reserve at night)
- 5) Alternate plans of action in case you cannot complete the flight as planned
- 6) Known traffic delays

91.105 SAFETY BELTS:

- Required flight crew members must remain in seats with seatbelts secured (unless performing duties or physiological needs).
- 2) Shoulder harnesses (if installed) must be used during takeoffs and landings.

91.107 SAFETY BELTS:

 You <u>may not takeoff or land unless you've</u> <u>notified</u> each person to <u>fasten his safety belt</u>. <u>Each person on board is required to fasten his</u> <u>belt</u> after being notified by the pilot.

91.113 RIGHT-OF-WAY RULES:

- 1) Each pilot is <u>responsible</u> for <u>seeing</u> an other aircraft.
- 2) An aircraft in DISTRESS has the <u>right-of-way</u> over all other traffic.
- 3) The <u>least maneuverable category</u> of aircraft has the right-of-way.
- 4) The <u>aircraft on the right</u> has the <u>right-of-wav</u> if both are of the <u>same category</u> (i.e. two airplanes converging but not head-on).
- 5) Approaching <u>head-on</u> <u>Each</u> pilot <u>deviates</u> to the right.
- 6) The <u>aircraft being overtaken</u> has the <u>right-of-</u> way. The <u>faster aircraft</u> must pass on the <u>right</u>.
- 7) An aircraft on <u>final approach</u> has the <u>right-of-wav.</u>
- 8) An <u>aircraft towing or refueling</u> has the <u>right-of-wav</u> over all engine-driven traffic.

91.117 SPEED LIMITS:

Maximum speed below 10.000 MSL is 250 knots. In an <u>Class B airspace</u> max. speed is <u>250 knots.</u> In an <u>Class C & D and under class B airspace</u> max. speed <u>200 knots</u>

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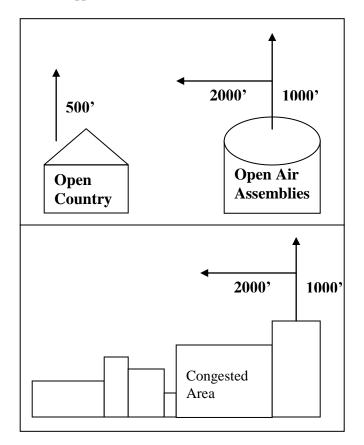
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91.119 MINIMUM SAFE FLIGHT ALTITUDES:

You must always fly high enough to be able to make <u>a safe emergency landing</u> (without undue hazards to persons or property on the surface) jf your <u>engine should fail.</u>

- Over <u>congested areas</u>, fly at least 1,000' above <u>highest obstacle</u> within <u>a 2,000' horizontal radius</u>.
- Over uncongested areas, fly at least 500' above the surface.
- Over open water or <u>sparsely populated areas</u>, fly at least <u>500' away from any person</u>, vehicle. vessel or <u>structure</u>.
- **Takeoff and landings** no minimum altitude applies



91.115 Right of Way

One must maintained vigilance to **see and avoid** other aircraft.

In general, a less maneuverable aircraft has right-of-way.

- Aircraft in distress has right of way over all others.
- Aircraft of different categories (the least maneuverable has right-of-way):
 - A balloon has right-of-way.
 - Glider has right-of-way over airship, airplane, rotorcraft, weight-shift control, powered parachute.
 - Airship has right-of-way over airplane, rotorcraft, weight-shift control, powered parachute
- Aircraft Towing or refueling has right of way over all other engine driven aircraft.
- Aircraft of same category converge at same altitude (except head-on), aircraft on right has right-of-way.
- Aircraft approaching head on (or nearly so) must alter course to right, regardless of category.
- Aircraft being overtaken has right-of-way. Overtaking aircraft shall alter course to the right and remain well clear.
- When approaching an airport for landing, the lower aircraft has right-of-way, but shall not take advantage of this to get in front of or overtake another aircraft.
- When taxing on water, the aircraft is a boat and follows boat rules. If motorboat and aircraft on water, the one right-of-way.

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91.125 ATC Light Signals

Color and Type of Signal	On the Ground	In Flight
STEADY GREEN	Cleared for takeoff	Cleared to land
FLASHING GREEN	Cleared to taxi	Return for landing (to be followed by steady green at proper time.)
STEADY RED	Stop	Give way to another aircraft and continue circling.
FLASHING RED	Taxi clear of landing area (runway) in use.	Airport unsafe DO NOT LAND
FLASHING WHITE.	Return to starling point on airport	
ALTERNATING RED 4 GREEN	GENERAL WARNING: Exercise Extreme Caution	

ATC LIGHT SIGNALS

91.121 ALTIMETER SETTINGS.

<u>In flight</u> you must <u>set</u> your <u>altimeter</u> to the <u>current</u> reported <u>setting</u> of a <u>station along</u> your <u>route</u> and <u>within 100</u> nautical miles.

91.123 COMPLIANCE WITH A TC CLEARANCES.

*

You must comply with ATC clearances unless you obtain an amended clearance.

If you deviate from a clearance in an emergency. you must <u>notify ATC as soon as possible.</u>

You must receive a <u>clearance to taxi, take-off, or</u> <u>land</u> at a tower-controlled airport.

In an emergency, if you are given priority by ATC, you must <u>submit a written report</u> of your

emergency' <u>within 48 hours</u> to the ATC facility chief. IF SO REQUESTED

91,126 OPERA TING A T TOWER-91.129 CONTROLLED AIRPORTS:

- 91.130 When operating to. from or on an airport
- *91.131* with an operating tower you must maintain radio communications with that tower.

91.126 OPERATING AT NON-TOWER AIRPORTS

At an uncontrolled <u>field</u>, make <u>all turns</u> to the <u>left</u> unless the markings indicate right turn.

Upon <u>departure</u>, you <u>must comply</u> with the <u>traffic</u> <u>pattern</u> for that airport.

91.131 CLASS B AIRSPACE:

For <u>operation</u> in a <u>Class B</u> you must have: 1) An ATC <u>clearance</u>

- 2) A <u>private pilot license</u> to land or takeoff at the primary airport. (Students may fly <u>through</u> the Class B but may not land at the primary airport.)
- 3) 2-way radio communications
- 4) A transponder with encoding altimeter

91.155 VFR WEATHERMINIMUMS:

- Controlled Airspace (below 10,000 feet MSL) – 3 miles visibility
 - 500 below, 1000 above, 2000 horizontal
 - Controlled Airspace (above 10,000 feet MSL)
 - 5 miles visibility
 - 1000 below, 1000 above, 1 mile horizontal
 - Uncontrolled Airspace (below 10,000 feet MSL)
 - See Airspace Overview Class G, in back of document.

91.157 SPECIAL VFR WEATHERMIN1MUMS:

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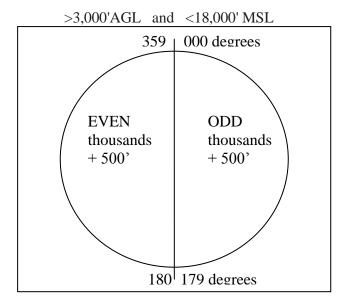
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When the weather in a Class C, D, *E* airspace is less than 1,000' ceiling and/or 3 miles visibility, you must obtain a Special VFR (SVFR) clearance and remain clear of clouds with 1 mile visibility when in the control zone.

91.159 VFR CRUISING ALTITUDES:

When flying at more than 3,000 AGL. your cruising altitude must <u>be based on MAGNETIC</u> <u>COURSE</u> as shown below:

000 - 179 = Odd thousands plus 500' 180 - 359 = Even thousands plus 500'



91.169 MAINTENANCE INSPECTION REQUIRED:

All aircraft must have an annual inspection performed every 12 calendar months.

<u>100 hour inspections</u> are <u>required only</u> for aircraft <u>carrying persons for hire</u> or aircraft used for <u>dual</u> <u>flight instruction</u>.

91.203 REQUIRED DOCUMENTS:

Each of the following must be aboard the airplane:

- A Airworthiness Certificate-DISPLAYED
- R Registration (shows owner, etc.)
- R Radio license (no longer required in USA)
- O Operating Limitations
- W Weight and Balance Data

91.205 VFR FLIGHT EQUIPMENT REQUIRED.

The following are required in your airplane for VFR flight during the daytime -

- 1) Airspeed indicator
- 2) Altimeter
- 3) Magnetic Compass
- 4) Tachometer
- 5) Oil pressure & Oil temperature gauge
- 6) Fuel gauge for each tank
- 7) Safety belts for each occupant
- 8) Emergency locator transmitter
- 9) Landing gear position indicator (if gear is retractable)
- For NIGHT VFR flight add to the above -
 - 1) Position Lights
 - 2) Red or white rotating beacon or strobe
 - 3) Generator or alternator to power electrical items
 - 4) Spare set of fuses or 3 fuses of each kind required.

91.209 POSITION LIGHTS.

Aircraft <u>position lights</u> must be <u>illuminated</u> from official sunset until official sunrise.

NOTE: Night time may not be logged until 1 hour <u>after</u> sunset to 1 hour before sunrise.

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91.211 OXYGEN REQUIREMENTS:

Oxygen is required for flight -

- 1) Above 12.500 MSL to 14.000 MSL only after first 30 minutes.
- 2) <u>Above 14.000 MSL</u> to 15,000 MSL for pilot <u>only (required crew) for entire time.</u>
- 3) Above 15,000 MSL <u>each occupant</u> must be provided with oxygen & the pilot must use it.

91.215 TRANSPONDER REQUIREMENT:

A <u>transponder with</u> an <u>encoding altimeter</u> is required:

1) At and above 10,000 MSL <u>in controlled</u> <u>airspace</u> (excluding the airspace at and below 2,500 MSL)

2) In a Class B. Class C Airspace and above/below within lateral limits

3) Within 30 nautical miles of certain major airports (Appendix D, Section 1, part 91)

No SVFR at night by non-instrument .rated pilots

91.303 ACROBATIC FLIGHT.

Acrobatic Flight is prohibited:

- 1) Over congested areas
- 2) Over open air assemblies of people
- 3) In a control zone

4) Within a Federal Airway

5) Below 1.500 AGL

6) When <u>visibility</u> is <u>Less than 3 miles</u>

91.307 PARACHUTES:

<u>Parachutes must be wom</u> by <u>all occupants</u> when practicing <u>acrobatics</u>, <u>except</u> if a <u>flight instructor</u> is <u>demonstrating spins</u> to his student.

91.407 TEST FLIGHTS AFTER MAJOR REPAIRS.

<u>After</u> an aircraft has been <u>repaired</u> or substantially <u>altered</u> it must be <u>test-flown</u> by at least a <u>private pilot before passengers can be</u> <u>carried</u> in that aircraft.

NATIONAL TRANSPORTATION SAFETY BOARD

NTSB PART 830 covers aircraft accident reporting requirements, http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?&c=ecfr&tpl=/ecfrbrowse/Title49/49tab_02.tpl.

You must immediately notify NTSB of any <u>accident</u> and certain <u>incidents</u>:

- Aircraft accident—substantial damage to aircraft, passenger death or serious injury.
- 2) Inability of flight crew member to perform duties due to injury or illness.
- 3) In-flight fire.
- 4) Overview aircraft believed to be in accident.
- 5) Flight control system malfunction or failure.

Notify = immediately (via most expeditious means available; must preserve wreckage, mail, cargo.

Report: accident=10 days, missing A/C=7 days, incident=upon request.

TRANSPONDER CODES

7700	Emergency
7600	Loss of Communications
7500	Hijack
1200	VFR

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ADVISORY CIRCULAR

Explanation. The FAA issues <u>advisory circulars</u> to <u>inform</u> the <u>aviation public</u> in a <u>systematic way</u> <u>of non-regulatory material</u> of interest. Unless incorporated into a regulation by reference, the <u>contents</u> of an advisory circular are <u>not binding on the public</u>. Advisory circulars are issued in a numbcred-subject system <u>corresponding</u> to the subject areas in the recodified <u>Federal Aviation</u> <u>Regulations</u>.

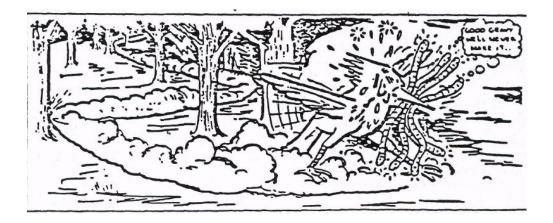
The Circular Number System.

a. General. The advisory circular numbers relate to the subchapter titles and correspond to the

Parts, and when appropriate, the specific sections of the Federal Aviation Regulations. Circulars of a general nature bear a number corresponding to the number of the general

subject (subchapter) in the FAR's. b. Subject numbers. The general subject matter areas and related numbers are as follows:

Subject Number and Subject Matter				
<u>00</u> 10	<u>General</u> Procedural	120 Air Carrier and Commercial Operators140 • Schools and Other Certified Agencies		
20	Aircraft	150 Airports		
<u>60</u> 70	<u>Airman</u> Airspace	170 Air Navigational Facilities		
90	Air Traffic Control &	180 Administrative		
20	General Operations	210 Flight Information		



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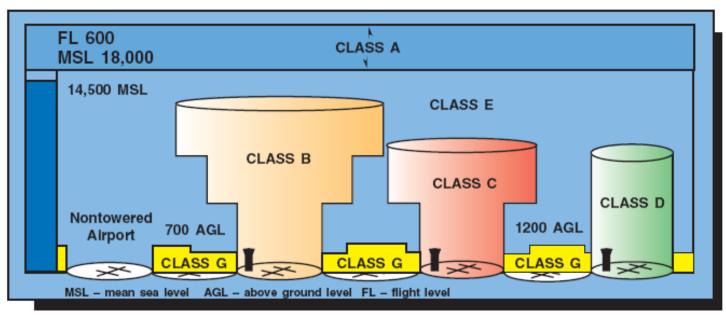


Figure 13-1. Airspace profile.

Class G is uncontrolled airspace; all other is controlled. **Class E** is all controlled airspace that's not **A**, **B**, **C**, **D**

Class E starts at 1200 feet above the ground unless otherwise indicated.

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Airspace Overview

Class Alrspace	Entry Requirements	Equipment	Minimum Pilot Certificate
A	ATC Clearance	IFR Equipped	Instrument Rating
В	ATC Clearance	Two-Way Radio, Transponder with Altitude Reporting Capability	Private—Except a student or recreational pilot may operate at other than the primary airport if seeking private pilot certification and if regulatory requirements are met.
с	Two-Way Radio Communications Prior to Entry	Two-Way Radio, Transponder with Altitude Reporting Capability	No Specific Requirement
D	Two-Way Radio Communications Prior to Entry	Two-Way Radio	No Specific Requirement
E	None for VFR	No Specific Requirement	No Specific Requirement
G	None	No Specific Requirement	No Specific Requirement

Sep 25, 2007

Airspace Overview

BASIC VFR WEATHER MINIMUMS 891,155				
Airspace	Flight Visibility	Distance from Clouds		
Class A	Not Applicable	Not Applicable		
Class B	3 statute miles	Clear of Clouds		
Class C	3 statute miles	500 feet below 1,000 feet above 2,000 feet horizontal		
Class D	3 statute miles	500 feet below 1,000 feet above 2,000 feet horizontal		
Class E Less than 10,000 feet MSL	3 statute miles	500 feet below 1,000 feet above 2,000 feet horizontal		
At or above 10,000 feet MSL	5 statute miles	1,000 feet below 1,000 feet above 1 statute mile horizontal		
Class G 1,200 feet or less above the surface (regardless of MSL altitude).				
Day, except as provided in section 91.155(b).	1 statute mile	Clear of Clouds		
Night, except as provided in section 91.155(b)	3 statute miles	500 feet below 1,000 feet above 2,000 feet horizontal		
More than 1,200 feet above the surface but less than 10,000 feet MSL.				
Day	1 statute mile	500 feet below 1,000 feet above 2,000 feet horizontal		
Night	3 statute miles	500 feet below 1,000 feet above 2,000 feet horizontal		
More than 1,200 feet above the surface and at or above 10,000 feet MSL.	5 statute miles	1,000 feet below 1,000 feet above 1 statute mile horizontal		

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