certificates and ratings are necessary, and the general operating rules for persons who hold those certificates and ratings.

§61.103 Eligibility requirements: General.

To be eligible for a private pilot certificate, a person must:

(a) Be at least 17 years of age, or for a rating in a glider or balloon be at least 16 years of age.

(b) Be able to read, speak, write, and understand the English language.

(c) Hold at least a current third-class medical certificate issued under part 67 of this chapter, or for a rating in a glider or balloon affix a signed and dated statement to the application certifying that no known medical defect exists that would make the person unable to pilot a glider or balloon, as appropriate.

(d) Receive a logbook endorsement from an authorized instructor who—

(1) Conducted the training or reviewed the person's home study on the aeronautical knowledge areas listed in § 61.105(b) of this part that apply to the aircraft rating sought; and

(2) Certified that the person is prepared for the required knowledge test.

(e) Satisfactorily accomplish the required knowledge test on the aeronautical knowledge areas listed in $\S 61.105(b)$ of this part.

(f) Receive flight training and a logbook endorsement from the authorized instructor who—

(1) Conducted the training on the approved areas of operation listed in § 61.107 of this part that apply to the aircraft rating sought; and

(2) Certified that the person is prepared for the required practical test.

(g) Meet the aeronautical experience requirements of this part that apply to the aircraft rating sought before applying for the practical test.

(h) Satisfactorily accomplishes a practical test on the approved areas of operation listed in §61.107 of this part that apply to the aircraft rating sought.

(i) Comply with the appropriate sections of this part that apply to the aircraft rating sought.

§61.105 Aeronautical knowledge.

(a) *General.* A person who is applying for a private pilot certificate must receive and log ground training from an authorized flight or ground instructor, or complete a home study course on the aeronautical knowledge areas of paragraph (b) of this section that apply to the aircraft rating sought.

(b) Aeronautical knowledge areas.

(1) The applicable Federal Aviation Regulations for private pilot privileges, limitations, and flight operations; (2) Accident reporting requirements of the National Transportation Safety Board;

(3) Use of the applicable portions of the "Airman's Information Manual" and FAA advisory circulars;

(4) The use of aeronautical charts for VFR navigation using pilotage, dead reckoning, and radio aids;

(5) Radio communication procedures;

(6) The recognition of critical weather situations from the ground and in flight, windshear avoidance, and the procurement and use of aeronautical weather reports and forecasts;

(7) The safe and efficient operation of aircraft, including collision avoidance, and recognition and avoidance of wake turbulence;

(8) The effects of density altitude on takeoff and climb performance;

(9) Weight and balance computations;(10) Principles of aerodynamics,

powerplants, and aircraft systems; (11) Stall awareness, spin entry, spins, and spin recovery techniques for the airplane and glider category and class ratings;

(12) Aeronautical decision making and judgment; and

(13) Preflight action that includes:

(i) How to obtain information on runway lengths at airports of intended use, data on takeoff and landing distances, weather reports and forecasts, and fuel requirements;

(ii) How to plan for alternatives if the planned flight cannot be completed; and

(iii) How to plan procedures for possible traffic delays.

§61.107 Flight proficiency.

(a) *General.* A person who applies for a private pilot certificate must receive and log ground training from an authorized ground or flight instructor and flight training from an authorized flight instructor on the approved areas of operation of this section that apply to the aircraft rating sought.

(b) Areas of operation for an airplane category rating with a single engine class rating. Areas of operation for an airplane category rating with a single engine class rating are the following:

(1) Preflight preparation;

(2) Preflight procedures;

(3) Airport and seaplane base operations;

(4) Takeoffs, landings, and goarounds;

- (5) Performance maneuvers;
- (6) Ground reference maneuvers;
- (7) Navigation;
- (8) Stalls and slow flight;

(9) Basic instrument maneuvers;

(10) Emergency operations;

(11) Night operations, except as

provided in §61.110 of this part; and

(12) Postflight procedures.

(c) Areas of operation for an airplane category rating with a multiengine class rating. Areas of operation for an airplane category rating with a multiengine class rating are the following:

(1) Preflight preparation;

(2) Preflight procedures;

(3) Airport and seaplane base operations:

(4) Takeoffs, landings, and goarounds;

(5) Performance maneuvers;

(6) Ground reference maneuvers;

- (7) Navigation;
- (8) Stalls and slow flight;
- (9) Basic instrument maneuvers;
- (10) Emergency operations;
- (11) Multiengine operations;

(12) Night operations, except as

provided in §61.110 of this part; and (13) Postflight procedures.

(d) Areas of operation for a rotorcraft category rating with a helicopter class rating. Areas of operation for a rotorcraft category rating with a helicopter class rating are the following:

(1) Preflight preparation;

(2) Preflight procedures;

- (3) Airport and heliport operations;
- (4) Hovering maneuvers;
- (5) Takeoffs, landings, and go-

arounds;

- (6) Performance maneuvers;
- (7) Navigation;
- (8) Emergency operations;
- (9) Night operations, except as
- provided in §61.110 of this part; and (10) Postflight procedures.

(e) Areas of operation for a rotorcraft category rating with a gyroplane class rating. Areas of operation for a rotorcraft category rating with a gyroplane class rating are the following:

- (1) Preflight preparation;
- (2) Preflight procedures;

(3) Airport operations;

(4) Takeoffs, landings, and goarounds;

- (5) Performance maneuvers;
- (6) Ground reference maneuvers;
- (7) Navigation;
- (8) Flight at slow airspeeds;
- (9) Emergency operations;
- (10) Night operations, except as

provided in § 61.110 of this part; and

- (11) Postflight procedures.
- (f) Areas of operation for a powered-

lift category rating. Areas of operation for a powered-lift category rating are the following:

- (1) Preflight preparation;
- (2) Preflight procedures;
- (3) Airport and heliport operations;
- (4) Hovering maneuvers;

(5) Takeoffs, landings, and go-

arounds;

(6) Performance maneuvers;