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and spin recovery procedures after providing the applicant with flight training in those training areas in an airplane or glider, as appropriate, that is certificated for spins; and

(2) Demonstrate instructional proficiency in stall awareness, spin entry, spins, and spin recovery procedures. However, upon presentation of the endorsement specified in paragraph (i)(1) of this section an examiner may accept that endorsement as satisfactory evidence of instructional proficiency in stall awareness, spin entry, spins, and spin recovery procedures for the practical test, provided that the practical test is not a retest as a result of the applicant failing the previous test for deficiencies in the knowledge or skill of stall awareness, spin entry, spins, or spin recovery instructional procedures. If the retest is a result of deficiencies in the ability of an applicant to demonstrate knowledge or skill of stall awareness, spin entry, spins, or spin recovery instructional procedures, the examiner must test the person on stall awareness, spin entry, spins, and spin recovery instructional procedures in an airplane or glider, as appropriate, that is certificated for spins;

(j) Log at least 15 hours as pilot in command in the category and class of aircraft that is appropriate to the flight instructor rating sought; and

(k) Comply with the appropriate sections of this part that apply to the flight instructor rating sought.

[Doc. No. 25910, 62 FR 16298, Apr. 4, 1997; Amdt. 61-103, 62 FR 40907, July 30, 1997]

§ 61.185 Aeronautical knowledge.

(a) A person who is applying for a flight instructor certificate must receive and log ground training from an authorized instructor on:

(1) Except as provided in paragraph (b) of this section, the fundamentals of instructing, including:

- (i) The learning process;
- (ii) Elements of effective teaching;
- (iii) Student evaluation and testing;
- (iv) Course development;
- (v) Lesson planning; and
- (vi) Classroom training techniques.

(2) The aeronautical knowledge areas for a recreational, private, and commercial pilot certificate applicable to

the aircraft category for which flight instructor privileges are sought; and

(3) The aeronautical knowledge areas for the instrument rating applicable to the category for which instrument flight instructor privileges are sought.

(b) The following applicants do not need to comply with paragraph (a)(1) of this section:

(1) The holder of a flight instructor certificate or ground instructor certificate issued under this part;

(2) The holder of a current teacher's certificate issued by a State, county, city, or municipality that authorizes the person to teach at an educational level of the 7th grade or higher; or

(3) A person employed as a teacher at an accredited college or university.

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§ 61.187 Flight proficiency.

(a) *General.* A person who is applying for a flight instructor certificate must receive and log flight and ground training from an authorized instructor on the areas of operation listed in this section that apply to the flight instructor rating sought. The applicant's logbook must contain an endorsement from an authorized instructor certifying that the person is proficient to pass a practical test on those areas of operation.

(b) *Areas of operation.* (1) For an airplane category rating with a single-engine class rating:

- (i) Fundamentals of instructing;
- (ii) Technical subject areas;
- (iii) Preflight preparation;
- (iv) Preflight lesson on a maneuver to be performed in flight;
- (v) Preflight procedures;
- (vi) Airport and seaplane base operations;
- (vii) Takeoffs, landings, and go-arounds;
- (viii) Fundamentals of flight;
- (ix) Performance maneuvers;
- (x) Ground reference maneuvers;
- (xi) Slow flight, stalls, and spins;
- (xii) Basic instrument maneuvers;
- (xiii) Emergency operations; and
- (xiv) Postflight procedures.

(2) For an airplane category rating with a multiengine class rating:

- (i) Fundamentals of instructing;
- (ii) Technical subject areas;

- (iii) Preflight preparation;
  - (iv) Preflight lesson on a maneuver to be performed in flight;
  - (v) Preflight procedures;
  - (vi) Airport and seaplane base operations;
  - (vii) Takeoffs, landings, and go-arounds;
  - (viii) Fundamentals of flight;
  - (ix) Performance maneuvers;
  - (x) Ground reference maneuvers;
  - (xi) Slow flight and stalls;
  - (xii) Basic instrument maneuvers;
  - (xiii) Emergency operations;
  - (xiv) Multiengine operations; and
  - (xv) Postflight procedures.
- (3) For a rotorcraft category rating with a helicopter class rating:
- (i) Fundamentals of instructing;
  - (ii) Technical subject areas;
  - (iii) Preflight preparation;
  - (iv) Preflight lesson on a maneuver to be performed in flight;
  - (v) Preflight procedures;
  - (vi) Airport and heliport operations;
  - (vii) Hovering maneuvers;
  - (viii) Takeoffs, landings, and go-arounds;
  - (ix) Fundamentals of flight;
  - (x) Performance maneuvers;
  - (xi) Emergency operations;
  - (xii) Special operations; and
  - (xiii) Postflight procedures.
- (4) For a rotorcraft category rating with a gyroplane class rating:
- (i) Fundamentals of instructing;
  - (ii) Technical subject areas;
  - (iii) Preflight preparation;
  - (iv) Preflight lesson on a maneuver to be performed in flight;
  - (v) Preflight procedures;
  - (vi) Airport operations;
  - (vii) Takeoffs, landings, and go-arounds;
  - (viii) Fundamentals of flight;
  - (ix) Performance maneuvers;
  - (x) Flight at slow airspeeds;
  - (xi) Ground reference maneuvers;
  - (xii) Emergency operations; and
  - (xiii) Postflight procedures.
- (5) For a powered-lift category rating:
- (i) Fundamentals of instructing;
  - (ii) Technical subject areas;
  - (iii) Preflight preparation;
  - (iv) Preflight lesson on a maneuver to be performed in flight;
  - (v) Preflight procedures;
  - (vi) Airport and heliport operations;
  - (vii) Hovering maneuvers;
  - (viii) Takeoffs, landings, and go-arounds;
  - (ix) Fundamentals of flight;
  - (x) Performance maneuvers;
  - (xi) Ground reference maneuvers;
  - (xii) Slow flight and stalls;
  - (xiii) Basic instrument maneuvers;
  - (xiv) Emergency operations;
  - (xv) Special operations; and
  - (xvi) Postflight procedures.
- (6) For a glider category rating:
- (i) Fundamentals of instructing;
  - (ii) Technical subject areas;
  - (iii) Preflight preparation;
  - (iv) Preflight lesson on a maneuver to be performed in flight;
  - (v) Preflight procedures;
  - (vi) Airport and gliderport operations;
  - (vii) Launches, landings, and go-arounds;
  - (viii) Fundamentals of flight;
  - (ix) Performance speeds;
  - (x) Soaring techniques;
  - (xi) Performance maneuvers;
  - (xii) Slow flight, stalls, and spins;
  - (xiii) Emergency operations; and
  - (xiv) Postflight procedures.
- (7) For an instrument rating with the appropriate aircraft category and class rating:
- (i) Fundamentals of instructing;
  - (ii) Technical subject areas;
  - (iii) Preflight preparation;
  - (iv) Preflight lesson on a maneuver to be performed in flight;
  - (v) Air traffic control clearances and procedures;
  - (vi) Flight by reference to instruments;
  - (vii) Navigation aids;
  - (viii) Instrument approach procedures;
  - (ix) Emergency operations; and
  - (x) Postflight procedures.
- (c) The flight training required by this section may be accomplished:
- (1) In an aircraft that is representative of the category and class of aircraft for the rating sought; or
  - (2) In a flight simulator or flight training device representative of the category and class of aircraft for the rating sought, and used in accordance with an approved course at a training

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center certificated under part 142 of this chapter.

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**§ 61.189 Flight instructor records.**

(a) A flight instructor must sign the logbook of each person to whom that instructor has given flight training or ground training.

(b) A flight instructor must maintain a record in a logbook or a separate document that contains the following:

(1) The name of each person whose logbook or student pilot certificate that instructor has endorsed for solo flight privileges, and the date of the endorsement; and

(2) The name of each person that instructor has endorsed for a knowledge test or practical test, and the record shall also indicate the kind of test, the date, and the results.

(c) Each flight instructor must retain the records required by this section for at least 3 years.

**§ 61.191 Additional flight instructor ratings.**

(a) A person who applies for an additional flight instructor rating on a flight instructor certificate must meet the eligibility requirements listed in § 61.183 of this part that apply to the flight instructor rating sought.

(b) A person who applies for an additional rating on a flight instructor certificate is not required to pass the knowledge test on the areas listed in § 61.185(a)(1) of this part.

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**§ 61.193 Flight instructor privileges.**

A person who holds a flight instructor certificate is authorized within the limitations of that person's flight instructor certificate and ratings to give training and endorsements that are required for, and relate to:

- (a) A student pilot certificate;
- (b) A pilot certificate;
- (c) A flight instructor certificate;
- (d) A ground instructor certificate;
- (e) An aircraft rating;
- (f) An instrument rating;

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(g) A flight review, operating privilege, or recency of experience requirement of this part;

(h) A practical test; and

(i) A knowledge test.

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**§ 61.195 Flight instructor limitations and qualifications.**

A person who holds a flight instructor certificate is subject to the following limitations:

(a) *Hours of training.* In any 24-consecutive-hour period, a flight instructor may not conduct more than 8 hours of flight training.

(b) *Aircraft ratings.* A flight instructor may not conduct flight training in any aircraft for which the flight instructor does not hold:

(1) A pilot certificate and flight instructor certificate with the applicable category and class rating; and

(2) If appropriate, a type rating.

(c) *Instrument Rating.* A flight instructor who provides instrument flight training for the issuance of an instrument rating or a type rating not limited to VFR must hold an instrument rating on his or her flight instructor certificate and pilot certificate that is appropriate to the category and class of aircraft in which instrument training is being provided.

(d) *Limitations on endorsements.* A flight instructor may not endorse a:

(1) Student pilot's certificate or logbook for solo flight privileges, unless that flight instructor has—

(i) Given that student the flight training required for solo flight privileges required by this part; and

(ii) Determined that the student is prepared to conduct the flight safely under known circumstances, subject to any limitations listed in the student's logbook that the instructor considers necessary for the safety of the flight.

(2) Student pilot's certificate and logbook for a solo cross-country flight, unless that flight instructor has determined the student's flight preparation, planning, equipment, and proposed procedures are adequate for the proposed flight under the existing conditions and within any limitations listed in