

§ 61.129

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- (i) Preflight preparation;
 - (ii) Preflight procedures;
 - (iii) Airport operations;
 - (iv) Takeoffs, landings, and go-arounds;
 - (v) Performance maneuvers;
 - (vi) Ground reference maneuvers;
 - (vii) Navigation;
 - (viii) Flight at slow airspeeds;
 - (ix) Emergency operations; and
 - (x) Postflight procedures.
- (5) For a powered-lift category rating:
- (i) Preflight preparation;
 - (ii) Preflight procedures;
 - (iii) Airport and heliport operations;
 - (iv) Hovering maneuvers;
 - (v) Takeoffs, landings, and go-arounds;
 - (vi) Performance maneuvers;
 - (vii) Navigation;
 - (viii) Slow flight and stalls;
 - (ix) Emergency operations;
 - (x) High-altitude operations;
 - (xi) Special operations; and
 - (xii) Postflight procedures.
- (6) For a glider category rating:
- (i) Preflight preparation;
 - (ii) Preflight procedures;
 - (iii) Airport and gliderport operations;
 - (iv) Launches and landings;
 - (v) Performance speeds;
 - (vi) Soaring techniques;
 - (vii) Performance maneuvers;
 - (viii) Navigation;
 - (ix) Slow flight and stalls;
 - (x) Emergency operations; and
 - (xi) Postflight procedures.
- (7) For a lighter-than-air category rating with an airship class rating:
- (i) Fundamentals of instructing;
 - (ii) Technical subjects;
 - (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) Performance maneuvers;
 - (ix) Navigation;
 - (x) Emergency operations; and
 - (xi) Postflight procedures.
- (8) For a lighter-than-air category rating with a balloon class rating:
- (i) Fundamentals of instructing;
 - (ii) Technical subjects;
 - (iii) Preflight preparation;

- (iv) Preflight lesson on a maneuver to be performed in flight;
- (v) Preflight procedures;
- (vi) Airport operations;
- (vii) Launches and landings;
- (viii) Performance maneuvers;
- (ix) Navigation;
- (x) Emergency operations; and
- (xi) Postflight procedures.

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§ 61.129 Aeronautical experience.

(a) *For an airplane single-engine rating.* Except as provided in paragraph (i) of this section, a person who applies for a commercial pilot certificate with an airplane category and single-engine class rating must log at least 250 hours of flight time as a pilot that consists of at least:

(1) 100 hours in powered aircraft, of which 50 hours must be in airplanes.

(2) 100 hours of pilot-in-command flight time, which includes at least—

- (i) 50 hours in airplanes; and
- (ii) 50 hours in cross-country flight of which at least 10 hours must be in airplanes.

(3) 20 hours of training on the areas of operation listed in § 61.127(b)(1) of this part that includes at least—

(i) Ten hours of instrument training using a view-limiting device including attitude instrument flying, partial panel skills, recovery from unusual flight attitudes, and intercepting and tracking navigational systems. Five hours of the 10 hours required on instrument training must be in a single engine airplane;

(ii) 10 hours of training in a complex airplane, a turbine-powered airplane, or a technically advanced airplane (TAA) that meets the requirements of paragraph (j) of this section, or any combination thereof. The airplane must be appropriate to land or sea for the rating sought;

(iii) One 2-hour cross country flight in a single engine airplane in daytime conditions that consists of a total straight-line distance of more than 100 nautical miles from the original point of departure;

(iv) One 2-hour cross country flight in a single engine airplane in nighttime conditions that consists of a total