

(4) The aircraft's normal, abnormal, and emergency procedures, and the operations and limitations relating thereto;

(5) Appropriate provisions of the approved aircraft's flight manual;

(6) Location of and purpose for inspecting each item on the aircraft's checklist that relates to the exterior and interior preflight; and

(7) Use of the aircraft's prestart checklist, appropriate control system checks, starting procedures, radio and electronic equipment checks, and the selection of proper navigation and communication radio facilities and frequencies.

4. *Flight training.* (a) Each approved course must include at least:

(1) Flight training on the approved areas of operation of paragraph (c) of this section in the aircraft type for which the course applies; and

(2) 10 hours of training of which at least 5 hours must be instrument training in the aircraft for which the course applies.

(b) For the use of full flight simulators or flight training devices:

(1) The course may include training in a full flight simulator or flight training device, provided it is representative of the aircraft for which the course is approved, meets requirements of this paragraph, and the training is given by an authorized instructor.

(2) Training in a full flight simulator that meets the requirements of §141.41(a), may be credited for a maximum of 50 percent of the total flight training hour requirements of the approved course, or of this section, whichever is less.

(3) Training in a flight training device that meets the requirements of §141.41(a), may be credited for a maximum of 25 percent of the total flight training hour requirements of the approved course, or of this section, whichever is less.

(4) Training in the full flight simulators or flight training devices described in paragraphs (b)(2) and (3) of this section, if used in combination, may be credited for a maximum of 50 percent of the total flight training hour requirements of the approved course, or of this section, whichever is less.

(c) Each approved course must include the flight training on the areas of operation listed in this paragraph, that are appropriate to the aircraft category and class rating for which the course applies:

(1) *A type rating for an airplane—single-engine course:* (i) Preflight preparation; (ii) Preflight procedures; (iii) Takeoff and departure phase; (iv) In-flight maneuvers; (v) Instrument procedures;

(vi) Landings and approaches to landings; (vii) Normal and abnormal procedures; (viii) Emergency procedures; and (ix) Postflight procedures.

(2) *A type rating for an airplane—multiengine course:* (i) Preflight preparation;

(ii) Preflight procedures; (iii) Takeoff and departure phase; (iv) In-flight maneuvers; (v) Instrument procedures; (vi) Landings and approaches to landings; (vii) Normal and abnormal procedures; (viii) Emergency procedures; and (ix) Postflight procedures.

(3) *A type rating for a powered-lift course:* (i) Preflight preparation;

(ii) Preflight procedures; (iii) Takeoff and departure phase; (iv) In-flight maneuvers; (v) Instrument procedures; (vi) Landings and approaches to landings; (vii) Normal and abnormal procedures; (viii) Emergency procedures; and (ix) Postflight procedures.

(4) *A type rating for a rotorcraft—helicopter course:* (i) Preflight preparation;

(ii) Preflight procedures; (iii) Takeoff and departure phase; (iv) In-flight maneuvers; (v) Instrument procedures; (vi) Landings and approaches to landings; (vii) Normal and abnormal procedures; (viii) Emergency procedures; and (ix) Postflight procedures.

(5) *Other aircraft type ratings specified by the Administrator through aircraft type certificate procedures:* (i) Preflight preparation;

(ii) Preflight procedures; (iii) Takeoff and departure phase; (iv) In-flight maneuvers; (v) Instrument procedures; (vi) Landings and approaches to landings; (vii) Normal and abnormal procedures; (viii) Emergency procedures; and (ix) Postflight procedures.

5. *Stage checks and end-of-course tests.* (a) Each student enrolled in an aircraft type rating course must satisfactorily accomplish the stage checks and end-of-course tests, in accordance with the school's approved training course, consisting of the approved areas of operation that are appropriate to the aircraft type rating for which the course applies at the airline transport pilot certificate level; and

(b) Each student must demonstrate satisfactory proficiency prior to receiving an endorsement to operate an aircraft in solo flight.

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