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- (2) The aeronautical knowledge areas in which training is required for an instrument rating that is appropriate to the aircraft category and class rating for the course which applies.
- 4. Flight training. (a) Each approved course must include at least 15 hours of flight training in the approved areas of operation of paragraph (c) of this section appropriate to the flight instructor rating 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 for, meets requirements of this paragraph, and the training is given by an instructor.
- (2) Training in a full flight simulator that meets the requirements of §141.41(a), may be credited for a maximum of 10 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 5 percent of the total flight training hour requirements of the approved course, or of this section, whichever is less
- (4) Training in 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 10 percent of the total flight training hour requirements of the approved course, or of this section, whichever is less. However, credit for training in a flight training device that meets the requirements of §141.41(b) cannot exceed the limitation provided for in paragraph (b)(3) of this section.
- (c) An approved course for the flight instructor-instrument rating must include flight training on the following approved areas of operation that are appropriate to the instrument-aircraft category and class rating for which the course applies:
 - ${\bf (1)}\ Fundamentals\ of\ instructing;\\$
 - (2) Technical subject areas;
 - (3) Preflight preparation;
- (4) Preflight lesson on a maneuver to be performed in flight:
- (5) Air traffic control clearances and procedures:
- (6) Flight by reference to instruments;
- (7) Navigation systems;
- (8) Instrument approach procedures;
- (9) Emergency operations; and
- (10) Postflight procedures.
- 5. Stage checks and end-of-course tests. Each student enrolled in a flight instructor instrument 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 listed in paragraph (c) of section

No. 4 of this appendix that are appropriate to the flight instructor instrument rating (for an airplane-, helicopter-, or powered-lift-instrument rating, as appropriate) for which the course applies.

[Doc. No. 25910, 62 FR 16347, Apr. 4, 1997; Amdt. 141-9, 62 FR 40909, July 30, 1997, as amended by Docket FAA-2015-1846, Amdt. 141-18, 81 FR 21461, Apr. 12, 2016]

APPENDIX H TO PART 141—GROUND INSTRUCTOR CERTIFICATION COURSE

- 1. Applicability. This appendix prescribes the minimum curriculum for a ground instructor certification course and an additional ground instructor rating course, required under this part, for the following ratings:
 - (a) Ground Instructor—Basic.
 - (b) Ground Instructor—Advanced.
 - (c) Ground Instructor—Instrument.
- 2. Aeronautical knowledge training. (a) Each approved course must include at least the following ground training on the knowledge areas listed in paragraphs (b), (c), (d), and (e) of this section, appropriate to the ground instructor rating for which the course applies:
- (1) 20 hours of training if the course is for an initial issuance of a ground instructor certificate; or
- (2) 10 hours of training if the course is for an additional ground instructor rating.
- (b) Ground training must include the following aeronautical knowledge areas:
 - (1) Learning process;
 - (2) Elements of effective teaching;
 - (3) Student evaluation and testing;
 - (4) Course development;
 - (5) Lesson planning; and
 - (6) Classroom training techniques.
- (c) Ground training for a basic ground instructor certificate must include the aeronautical knowledge areas applicable to a recreational and private pilot.
- (d) Ground training for an advanced ground instructor rating must include the aeronautical knowledge areas applicable to a recreational, private, commercial, and airline transport pilot.
- (e) Ground training for an instrument ground instructor rating must include the aeronautical knowledge areas applicable to an instrument rating.
- (f) A student who satisfactorily completed 2 years of study on the principles of education at a college or university may be credited with 10 hours of the training required in paragraph (a)(1) of this section.
- 3. Stage checks and end-of-course tests. Each student enrolled in a ground instructor 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 knowledge areas in paragraph (b), (c), (d), and (e) of section No. 2 of this appendix appropriate to the