Eligibility for enrollment. (a) Each approved course must include the following flight training—

(1) 35 hours of instrument training if the course is for an initial instrument rating.

(2) 15 hours of instrument training if the course is for an additional instrument rating.

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

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

(2) Credit for training in a flight simulator that meets the requirements of §141.41(a) cannot exceed 50 percent of the total flight training hour requirements of the course or of this section, whichever is less.

(3) Credit for training in a flight training device that meets the requirements of §141.41(b) cannot exceed 40 percent of the total flight training hour requirements of the course or of this section, whichever is less.

(4) Credit for training in flight simulators and flight training devices, if used in combination, cannot exceed 50 percent of the total flight training hour requirements of the course or of this section, whichever is less. However, credit for training in a flight training device cannot exceed the limitation provided for in paragraph (b)(3) of this section.

(5) Credit for training in an approved aviation training device cannot exceed 10 percent of the total flight training hour requirements of the course or of this section, whichever is less.

(6) Credit for training in flight simulators, flight training devices, and aviation training devices, if used in combination, cannot exceed 50 percent of the total flight training hour requirements of the course or of this section, whichever is less. However, credit for training in an aviation training device cannot exceed the limitation provided under paragraph (b)(5) of this section.

(c) Each approved course must include the following flight training—

(1) For an instrument airplane course: Instrument training time from a certificated flight instructor with an instrument rating on the approved areas of operation on the approved areas of operation in paragraph (d) of this section including at least one cross-country flight that—

(i) Is in the category and class of airplane that the course is approved for, and is performed under IFR;

(ii) Is a distance of at least 250 nautical miles along airways or ATC-directed routing with one segment of the flight consisting of at least a straight-line distance of 100 nautical miles between airports.

(2) For an instrument helicopter course: The course may include flight training in an instrument helicopter that meets the requirements of this paragraph and is given by a certificated flight instructor with an instrument rating on the approved areas of operation in paragraph (d) of this section, whichever is less.
Federal Aviation Administration, DOT

Appendix D to Part 141—Commercial Pilot Certification Course

1. Applicability. This appendix prescribes the minimum curriculum for a commercial pilot certification course required under this part, for the following ratings:
   (a) Airplane single-engine.
   (b) Airplane multiengine.
   (c) Rotorcraft helicopter.
   (d) Rotorcraft gyroplane.
   (e) Powered-lift.
   (f) Glider.
   (g) Lighter-than-air airship.
   (h) Lighter-than-air balloon.

2. Eligibility for enrollment. A person must hold the following prior to enrolling in the flight portion of the commercial pilot certification course:
   (1) Hold an instrument rating in the aircraft that is appropriate to the aircraft category rating for which the course applies; and
   (2) Be concurrently enrolled in an instrument rating course that is appropriate to the aircraft category rating for which the course applies, and pass the required instrument rating practical test prior to completing the commercial pilot certification course.

3. Aeronautical knowledge training. (a) Each approved course must include at least the following ground training on the aeronautical knowledge areas listed in paragraph (b) of this section, appropriate to the aircraft category and class rating for which the course applies:
   (1) Hold an instrument rating in the aircraft that is appropriate to the aircraft category rating for which the course applies; and
   (2) Be concurrently enrolled in an instrument rating course that is appropriate to the aircraft category rating for which the course applies, and pass the required instrument rating practical test prior to completing the commercial pilot certification course.

   1. Federal Aviation Regulations that apply to commercial pilot privileges, limitations, and flight operations;
   2. Accident reporting requirements of the National Transportation Safety Board;
   3. Basic aerodynamics and the principles of flight;
   4. Meteorology, to include recognition of critical weather situations, windshear recognition and avoidance, and the use of aeronautical weather reports and forecasts;
   5. Safe and efficient operation of aircraft;
   6. Weight and balance computations;

   (i) Involves an instrument approach at each airport; and
   (iv) Involves three different kinds of approaches with the use of navigation systems.

   (2) For an instrument helicopter course: Instrument training time from a certificated flight instructor with an instrument rating on the approved areas of operation in paragraph (d) of this section including at least one cross-country flight that—
      (i) Is in a helicopter and is performed under IFR;
      (ii) Is a distance of at least 100 nautical miles along airways or ATC-directed routing with one segment of the flight consisting of at least a straight-line distance of 50 nautical miles between airports;
      (iii) Involves an instrument approach at each airport; and
      (iv) Involves three different kinds of approaches with the use of navigation systems.

   (3) For an instrument powered-lift course: Instrument training time from a certificated flight instructor with an instrument rating on the approved areas of operation in paragraph (d) of this section including at least one cross-country flight that—
      (i) Is in a powered-lift and is performed under IFR;
      (ii) Is a distance of at least 250 nautical miles along airways or ATC-directed routing with one segment of the flight consisting of at least a straight-line distance of 100 nautical miles between airports;
      (iii) Involves an instrument approach at each airport; and
      (iv) Involves three different kinds of approaches with the use of navigation systems.

   (4) Each course must include flight training on the areas of operation listed under this paragraph appropriate to the instrument aircraft category and class rating (if a class rating is appropriate) for which the course applies:
      (1) Preflight preparation;
      (2) Preflight procedures;
      (3) Air traffic control clearances and procedures;
      (4) Flight by reference to instruments;
      (5) Navigation systems;
      (6) Instrument approach procedures;
      (7) Emergency operations; and
      (8) Postflight procedures.

   5. Stage checks and end-of-course tests. Each student enrolled in an instrument 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 listed in paragraph (d) of section No. 4 of this appendix that are appropriate to the aircraft category and class rating for which the course applies.