aircraft incapable of operating under instrument flight rules, then—

(i) The person may obtain a type rating limited to "VFR only;" and

- (ii) The "VFR only" limitation may be removed for that aircraft type when the person satisfactorily accomplishes the practical test under instrument flight rules
- (7) When an instrument rating is issued to persons who hold one or more type ratings, the type ratings on the amended pilot certificate shall bear the "VFR only" limitation for each aircraft type rating for which they have not shown the instrument competency; and
- (8) Need not accomplish another knowledge test, provided they hold an airplane, rotorcraft, powered-lift, or airship rating on their pilot certificate.

§ 61.65 Instrument rating requirements.

- (a) *General*. A person who applies for an instrument rating must:
- (1) Hold at least a private pilot certificate with an aircraft category and class rating that applies to the instrument rating sought;
- (2) Be able to read, speak, write, and understand the English language;
- (3) Hold at least a current third-class medical certificate issued under part 67 of this chapter;
 - (4) Present documentation of having—
- (i) Received and logged ground training from an authorized instructor, or accomplished a home study course of training on the approved aeronautical knowledge areas of paragraph (b) of this section that apply to the instrument rating sought;
- (ii) Received a logbook or training record endorsement from the authorized instructor, who gave that person training or reviewed that person's home study course, certifying that the person is prepared to satisfactorily accomplish the required knowledge test;
- (iii) Received and logged training from an authorized flight instructor in the aircraft, or from an authorized instructor in a flight simulator or training device that represents that class of aircraft for the instrument rating sought on the approved areas of operation of paragraph (c) of this section; and
- (iv) Received a logbook or training record endorsement from the authorized instructor who gave that person the training and certified that the person is prepared to satisfactorily accomplish the required practical test.
- (5) Satisfactorily accomplish the required knowledge test on the approved aeronautical knowledge areas of paragraph (b) of this section;
- (6) Satisfactorily accomplish the required practical test on the approved

- areas of operation of paragraph (c) of this section;
- (7) Satisfactorily accomplish an instrument rating practical test in a multiengine airplane, and who holds an airplane category and single-engine class rating on the person's pilot certificate will also have met the requirements for issuance of an instrument rating-airplane single engine:
- (8) Is not required to accomplish another knowledge test, when that person already holds an instrument rating on the person's pilot certificate; and
- (9) Comply with the applicable requirements of this section.
- (b) Aeronautical knowledge. A person who applies for an instrument rating must have received and logged ground training from authorized instructor, or accomplished a home study course on the following aeronautical knowledge areas that apply to the instrument rating sought:
- (1) The Federal Aviation Regulations of this chapter that apply to flight operations under IFR;
- (2) The appropriate information that apply to flight operations under IFR in the "Airman's Information Manual;"
- (3) The air traffic control system and procedures for instrument flight operations;
- (4) IFR navigation and approaches by use of radio aids;
- (5) The use of IFR enroute and instrument approach procedure charts;
- (6) The procurement and use of aviation weather reports and forecasts and the elements of forecasting weather trends based on that information and personal observation of weather conditions:
- (7) The safe and efficient operation of aircraft under IFR and conditions that apply to the instrument rating sought;
- (8) The recognition of critical weather situations and windshear avoidance;
- (9) Aeronautical decision making and judgment; and
- (10) Flight deck resource management, including crew communications and coordination.
- (c) Areas of operation. A person who applies for an instrument rating must receive and log training from an authorized flight instructor in an aircraft, or from an authorized instructor in an approved flight simulator or training device (or any combination thereof) that includes the following approved areas of operation:
 - (1) Preflight preparation;
 - (2) Preflight procedures;
- (3) Air traffic control clearances and procedures;
 - (4) Flight by reference to instruments;

- (5) Navigation aids;
- (6) Instrument approach procedures;
- (7) Emergency operations; and
- (8) Postflight procedures.
- (d) Aeronautical experience. A person who applies for an instrument rating must have received and logged the following training:
- (1) At least 40 hours of instrument training from an authorized flight instructor-instrument or ground instructor-instrument on the approved areas of operation of this section;
- (2) Not more than 20 hours of the instrument training prescribed in paragraph (d)(1) of this section may be met by training received from an authorized flight instructor-instrument or ground instructor-instrument in a flight simulator or flight training device;
- (3) At least 5 hours of instrument flight training from an authorized instrument flight instructor in the category and class aircraft for the instrument rating sought;
- (4) At least 3 hours of instrument training that is appropriate to the instrument-aircraft class rating sought and from an authorized instructor in preparation for the practical test within the 60-days preceding the date of the test:
- (5) For an instrument-airplane rating, instrument training specific to airplanes on cross-country flight procedures that includes at least one cross-country flight in the class airplane for the instrument rating sought, is performed under IFR, and consists of—
- (i) A distance of at least 250 nautical miles along airways or ATC-directed routing with one of the routes being at least a straight-line distance of 100 nautical miles between airports;
- (ii) An instrument approach at each airport; and
- (iii) Three different kinds of approaches with the use of navigation aids.
- (6) For an instrument-helicopter rating, instrument training specific to helicopters on cross-country flight procedures that includes at least one cross-country flight in a helicopter, is performed under IFR, and consists of—
- (i) A distance of at least 100 nautical miles along airways or ATC-directed routing with one of the routes being at least a straight-line distance of 50 nautical miles between airports;
- (ii) An instrument approach at each airport; and
- (iii) Three different kinds of approaches with the use of navigation aids.
- (7) For an instrument-airship rating, instrument training specific to airships on cross-country flight procedures that includes at least one cross-country flight