U. S. DEPARTMENT OF COMMERCE

DANIEL C. ROPER, Secretary

BUREAU OF AIR COMMERCE

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CIVIL AIR REGULATIONS

50.—FLYING SCHOOL RATING

As Amended to May 31, 1938

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CIVIL AIR REGULATIONS

Pursuant to the authority contained in the Air Commerce Act of 1926 (44 Stat. 568) as amended by the Act of February 28, 1929 (45 Stat. 1404), the Act of June 19, 1934 (48 Stat. 1113), the Act of June 19, 1934 (48 Stat. 1116), and Sections 11 and 12 of the Act of June 12, 1934 (48 Stat. 933, 937), the following Civil Air Regulations are hereby made, prescribed, and issued to be known as—

Part 00. Aircraft Registration Certificate.
Part 01. Aircraft Certificates.
Part 02. Aircraft Identification Mark.
Part 03. Aircraft Title Transfer.
Part 04. Airplane Airworthiness.
Part 13. Aircraft Engine Airworthiness.
Part 14. Aircraft Propeller Airworthiness.
Part 15. Aircraft Equipment Airworthiness.
Part 18. Repair and Alteration of Aircraft.
Part 20. Pilot Rating.
Part 21. Airline Pilot Rating.
Part 23. Ground Instructor Rating.
Part 24. Mechanic Rating.
Part 25. Parachute Rigger Rating.
Part 26. Airport Control Tower Operator Rating.
Part 27. Airline Dispatcher Rating.
Part 40. Scheduled Airline Certification (Interstate and Intra-Territorial).
Part 50. Flying School Rating.
Part 52. Aircraft Repair Station Rating.
Part 60. Air Traffic Rules.
Part 61. Scheduled Airline Rules (Interstate).
Part 90. Air Mail.
Part 91. Aircraft Accident Investigations.
Part 92. Hearings Upon Certificates (Issued, Renewed, Denied, Suspended or Revoked).
Part 93. Evidence.
Part 94. Penalties.
Part 95. Imposition, Remission and Mitigation of Penalties.
Part 96. Authorization to Act for the Secretary.
Part 98. Definitions.
Part 99. Mode of Citation of Regulations.

Any and all rules and regulations heretofore made, prescribed, and issued by the Secretary of Commerce pursuant to the authority first above stated are hereby repealed.

Approved May 31, 1938.

[SEAL]

DANIEL C. ROPER,
Secretary of Commerce

PART 50.—FLYING SCHOOL RATING

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50.0 Provision for rating. Pursuant to the provisions of the Air Commerce Act requiring the Secretary of Commerce to provide by regulation for the rating of civilian schools giving instruction in flying, as to the adequacy of the course of instruction, as to the suitability and airworthiness of the equipment, and as to the competency of the instructors flying school ratings will be as follows:

(*a*) Advanced Flying School Rating.

(*b*) Primary Flying School Rating.

50.1 Minimum requirements. To be eligible for a flying school competency rating, an applicant shall comply with the following minimum requirements prescribed for the particular rating sought.

50.10 Advanced flying school rating. To be eligible for an advanced flying school rating, an applicant shall comply with the following minimum requirements.

50.100 Flying instructors. Applicant shall show that each person employed to give, or giving, flight instruction for the school is possessed of both a valid and appropriate pilot certificate and a valid instructor rating.

50.101 Aircraft for flight instruction. Applicant shall show—

50.1010 (*a*) that each aircraft to be used for purposes of flight instruction is possessed of a valid aircraft certificate, and

50.1011 (*b*) that at least one certificated aircraft is available for purposes of flying instruction for each 15 students enrolled in flying courses, and

50.1012 (*c*) one or more types of aircraft, normally used for primary dual instruction and deemed satisfactory to the Secretary for such purpose, available for purposes of flying instruction, and 2 or more other types, one of which shall be a cabin aircraft of at least 4-place capacity. All aircraft used for night flying instruction shall be appropriately certificated as provided in Part 04.

50.102 Hangar and shop facilities. Applicant shall show hangar space sufficient to adequately house all aircraft used for purposes of

flying instruction and shall show shop facilities, equipment and personnel sufficient to maintain such aircraft in an airworthy condition.

50.103 Landing area. Applicant shall show a landing area available for flying instruction which at least complies with the following:

50.1030 (*a*) **Size and design.** The landing area shall have (1) at least 1,800 feet of effective landing length in all directions, or (2) at least 3 landing strips not less than 500 feet, permitting landing in at least 6 directions at all times, with at least one landing strip aligned with the general direction of the prevailing wind, the landing strips not to cross or converge at angles of less than 40 degrees, nor any of the landing strips to be less than 1,800 feet in effective landing length, or (3) at least 2 landing strips not less than 500 feet wide, permitting landing in at least 4 directions at all times, with at least one landing strip aligned with the general direction of the prevailing wind, the landing strips not to cross or converge at an angle of less than 80 degrees, nor any of the landing strips to be less than 2,500 feet in effective landing length. The foregoing effective landing length requirements are applicable to landing areas at sea level and shall be 1 per cent greater for each 100 feet that the landing area is above sea level.

50.1031 (*b*) **Surface.** The landing area shall be suitable for the taking off and landing of aircraft under all ordinary weather conditions, and shall present a firm, smooth, well-drained surface which is free from obstructions.

50.104 Flying instruction curriculum. Applicant shall show a flying instruction curriculum so organized as to offer the following courses of flight instruction:

50.1040 (*a*) **Solo pilot flight course.** So arranged as to give each student a minimum of 13 hours total flying time, of which not less than 8 hours shall be dual or check time and not less than 5 hours of solo time in which the student is the sole occupant of the aircraft.

50.1041 (*b*) **Private pilot flight course.** So arranged as to give each student a minimum of 35 hours total flying time, of which not less than 10 hours, nor more than 15 hours, shall be dual or check time, which may be credited as solo time for the purpose of qualifying for a pilot rating. The course shall also be so arranged as to give each student a minimum of 2 hours solo experience in flying at least one type of aircraft other than that used for primary dual instruction and at least 5 hours of solo cross-country flying, which shall include at least one flight over a course of not less than 50 miles with at least 2 full stop landings at different points on the course.

50.1042 (*c*) **Limited-commercial pilot course.** Same as in § 50.1041, except that the total flying time shall be a minimum of 60 hours of which not less than 15 hours, nor more than 20 hours, shall be dual or check time.

50.1043 (*d*) **Commercial pilot flight course.** So arranged as to give each student the following:

50.10430 A minimum of 175 hours total flying time, of which not less than 25 hours, nor more than 40 hours, shall be dual or check time, which may be credited as solo time for the purpose of qualifying for a pilot rating.

50.10431 A minimum of 10 hours solo experience in flying each of two distinct types of aircraft other than the aircraft used for primary dual instruction.

50.10432 At least 10 hours of solo flying in at least one type of cabin aircraft, of at least 4-place capacity, which shall be loaded with ballast to the approved gross weight for such aircraft during such flights.

50.10433 At least 10 hours of solo night flying.

50.10434 At least 10 hours of solo cross-country flying, which shall include at least one flight over a course of not less than 100 miles with at least 3 full stop landings at the different points on the course.

50.105 Ground instructors. Applicant shall show that each person giving, or employed to give ground instruction for the school is possessed of a valid and appropriate ground instructor certificate.

50.106 Aircraft for ground instruction. Applicant shall show the following aircraft and aircraft engine demonstration equipment specifically set aside for ground school instruction:

50.1060 (*a*) One modern type aircraft complete, with engine.

50.1061 (*b*) 2 additional types of aircraft wings, showing different types of construction and methods of attachment to the fuselage.

50.1062 (*c*) 3 aircraft engines of different make in current use, 2 of which shall be air-cooled types and one water-cooled.

NOTE.—The foregoing equipment is not required to be in airworthy condition, and may have been damaged, *provided* it has been repaired sufficiently for complete assembly.

50.107 Class room facilities. Applicant shall show at least one class room for each 100 persons enrolled, which room shall be capable of seating at least 20 students. All places where instruction is given shall be furnished with suitable and adequate facilities.

50.108 Ground instruction curriculum. Applicant shall show a ground instruction curriculum so organized as to offer the following courses of ground instruction:

50.1080 (*a*) **Solo pilot ground school course.** So arranged as to give each student at least the following instruction:

50.10800 Civil air regulations. 5 hours.

50.1081 (*b*) **Private pilot ground school course.** Same as in § 50.1080, and in addition at least 20 hours in aerial navigation and meteorology as outlined in § 20.125, and 5 hours in general service of aircraft.

50.1082 (*c*) **Limited-commercial pilot ground school course.** So arranged as to give each student at least the following instruction:

50.10820 Civil air regulations. 5 hours.

50.10821 Aircraft engines (including principles of internal-combustion, carburetion, cooling, lubrication, and construction, inspection, maintenance and repair of various types). 15 hours.

50.10822 Aircraft (including history of aviation, theory of flight, nomenclature, aerodynamics, and design, construction, rigging, inspection, maintenance, and repair of various types. 15 hours.

50.10823 Aerial navigation and meteorology. 20 hours.

50.10824 Shop practice. 5 hours of each of the above required 15 hours on aircraft and on engines may be shop practice on the basis of

3 hours shop practice equivalent to 1 hour of classroom instruction. Shop practice shall be under the direct supervision of a certificated ground instructor. Shop practice as permitted by these regulations is interpreted to mean maintenance and repair instruction. Such instruction, if given, shall be conducted in a specially designated place and on equipment provided for that purpose and shall not be conducted on the actual flying equipment. This, however, shall not be interpreted as prohibiting students from working in the repair shops under the supervision of mechanics holding valid mechanic certificates of competency.

50.10825 Parachutes. 1 hour.

50.1083 (*d*) **Commercial pilot ground school course.** So arranged as to give each student at least the following instruction:

50.10830 Civil air regulations. 5 hours.

50.10831 Aircraft engines. Same as in § 50.10821, 25 hours.

50.10832 Aircraft. Same as in § 50.10822, 30 hours.

50.10833 Meteorology. 15 hours.

50.10834 Aerial navigation, including the subject of radio and its use. 20 hours.

50.10835 Aircraft instruments. 10 hours.

50.10836 Parachutes. 1 hour.

50.10837 Shop practice. 10 hours of the above required 25 hours on engines and 10 hours of the above required 30 hours on aircraft may be shop practice, on the basis of 3 hours shop practice equivalent to 1 hour of classroom instruction. Shop practice shall be under the direct supervision of a certificated ground instructor.

50.11 Primary flying school rating. To be eligible for a primary flying school rating, an applicant shall comply with the following minimum requirements:

50.110 Flying instructors. Same as in § 50.100.

50.111 Aircraft for flight instruction. Applicant shall show:

50.1110 (*a*) that each aircraft to be used for purposes of flying instruction is possessed of a valid aircraft certificate.

50.1111 (*b*) that at least one certificated aircraft is available for purposes of flying instruction for each 15 students enrolled in flying courses.

50.1112 (*c*) one or more types of aircraft, normally used for primary dual instruction and deemed satisfactory to the Secretary for such purpose, available for purposes of flying instruction.

50.112 Hangars and shop facilities. Same as in § 50.102.

50.113 Landing area. Same as in § 50.103.

50.114 Flying instruction curriculum. Same as in § 50.104, except that §§ 50.1042 and 50.1043 are not required.

50.115 Ground instructors. Same as in § 50.105.

50.116 Aircraft for ground instruction. Applicant shall show at least one modern type aircraft complete with aircraft engine. The foregoing equipment need not be in airworthy condition.

50.117 Class room facilities. Same as in § 50.107.

50.118 Ground instruction curriculum. Same as in § 50.108, except that §§ 50.1082 and 50.1083 are not required.

50.2 Flying school certificate.

50.20 Provision for issuance. A flying school certificate of competency will be issued by the Secretary, upon approval of application made and satisfactory proofs submitted, to a flying school which, upon inspection and examination, is found by the Secretary to meet the appropriate minimum requirements prescribed in § 50.1 and is, therefore, rated as competent to give instruction in flying.

50.200 Civilian schools giving instruction in flying and holding valid approved school certificates may operate pursuant to such authority until the expiration thereof or until July 1, 1938, whichever is the shorter period. Thereafter flying school certificates will be issued, upon application, pursuant to these regulations.

50.21 Application. Application for a flying school certificate shall be made to the Secretary, subscribed under oath, upon a form supplied for the purpose, and shall be accompanied by two copies of the flying and ground instruction curricula.

50.210 Application to amend. When any change in a flying school competency rating is desired, the applicant shall file a written request therefor with the Secretary upon a form supplied for the purpose.

50.211 Proceeding to amend. A proceeding to amend a flying school competency rating may be instituted by the Secretary when, in his opinion, the flying school is no longer competent in respect of some matter specified in the certificate. Notice of such proceeding shall be addressed to the flying school with opportunity for a hearing. In the interim, the certificate may be suspended in whole or in part by a duly authorized Bureau inspector or by the Secretary. Following the hearing, the Secretary may issue a re-rating as to competency.

50.22 Issuance. Upon approval of an application duly made and proofs submitted, including inspection and examination, an appropriate flying school certificate of competency will be issued.

50.220 Temporary certificate. Following application made for a flying school certificate, but prior to approval thereof and issuance of the certificate, a temporary flying school certificate may be issued by the examining Bureau inspector.

50.23 Display. The flying school certificate (or a copy thereof) in its currently effective form shall be conspicuously posted in the principle office of the flying school where it may be readily seen, and any such certificate shall be presented for inspection upon demand of any authorized officer or employee of the Department of Commerce, or upon the reasonable request of any other person.

50.24 Duration. A flying school certificate, unless sooner suspended or revoked in accordance with the provisions of § 50.27, will remain in force for one year after date of issue.

50.25 Renewal. The term of a flying school certificate may be renewed, for a like period as the original certificate, upon written application within 45 days prior to expiration and upon a satisfactory showing that the school is in active operation and maintained pursuant to the requirements of these regulations.

50.26 Non-transferability. A flying school certificate is not transferable.

50.27 Suspension or revocation. A flying school certificate may be suspended, in whole or in part, by a duly authorized Bureau inspector

or by the Secretary or revoked, in whole or in part, by the Secretary for any of the following acts or statements on the part of the flying school owner, operator, or employee thereof:

50.270 (*a*) Any false statement by the flying school operator in the application for the certificate, or in any information accompanying such certificate, or in any report required by the Secretary.

50.271 (*b*) Violation of any of the terms, conditions, specifications, limitations, or other provisions of the flying school certificate.

50.272 (*c*) Violation of any provision of the Air Commerce Act or any rule or regulation duly issued thereunder.

50.273 (*d*) Suspension of flying school service.

50.274 (*e*) Any unsafe operation of the flying school.

50.275 (*f*) Any failure to maintain safety standards requisite to the obtaining of such certificate.

50.276 (*g*) Any advertising which directly, or impliedly, states that the flying school is certificated as competent to offer any course of instruction in flying or ground school courses for which it does not, in fact, possess a valid flying school competency rating.

50.28 Surrender. Upon notice from a duly authorized Bureau inspector of the suspension of a flying school certificate by such inspector or by the Secretary, and upon demand of either of the same for the surrender of such certificate, or upon notice from the Secretary of the revocation of such certificate, the holder thereof shall immediately surrender such certificate to such inspector or immediately return such certificate to the Secretary, as the case may be. In case of revocation, notwithstanding any failure or refusal to surrender a flying school certificate, it shall be deemed canceled and of no further force or effect.

50.3 Flying school regulations. The following rules and regulations will govern the conduct and operation of flying schools:

50.30 Inspection. The applicant for any flying school certificate of competency shall offer full cooperation in respect of any inspection and examination which may be made of said applicant upon proper demand by any authorized representative of the Secretary prior or subsequent to the issuance of a flying school certificate of competency.

50.31 Curriculum.

50.310 Changes. Any proposed change in the curriculum of a certificated flying school shall be submitted to the Secretary for approval, and no change shall be made prior to such approval.

50.32 Instruction.

50.320 Standard of instruction. Each certificated flying school shall maintain a standard of ground or flying instruction, or both, to assure that 9 out of every 10 graduates therefrom who apply for a pilot certificate of competency satisfactorily qualify for such pilot certificate.

50.321 Spin instruction. All certificated flying schools shall give instruction, to each student enrolled for flying instruction, in the recovery from stalls and spins prior to the student's first solo flight.

50.322 Refresher courses. A certificated flying school may give refresher courses in ground or flying subjects, or both, for the purpose

of qualifying pilots who already have had the necessary total flying time for the kind of pilot certificate for which they intend to apply.

50.323 Dual instruction restrictions. All dual instruction given by a certificated flying school shall be in the vicinity of the airport or other instruction area, except that not to exceed 2 hours dual cross-country will be permitted and credited toward the student's total time as a portion of his dual and check time.

50.324 Limitation on flying instruction hours. No person shall give, or offer to give, more than 6 hours of dual flying instruction in one day, nor more than 6 days in any one week, to students in a certificated flying school.

50.33 Examinations. Upon the completion of each course (meaning each subject taught therein) offered in a certificated flying school, each student taking such course shall be given an examination on the subject matter covered, and all grades attained in such examinations shall be made a part of each student's individual record, and a copy thereof maintained by the school.

50.34 Records. Every certificated flying school shall keep an adequate individual record of each student enrolled therein, which record shall include a chronological log of all instruction. The entire record shall be certified to by an authorized official of such school.

50.35 Reports. A report and student roster shall be submitted to the Secretary by the owner or operator of each certificated flying school on January first and July first of each calendar year. Such student roster shall list:

(*a*) The names of all students enrolled,

(*b*) The course or courses for which they are enrolled,

(*c*) The names of all students who have been graduated within the period reported on, and

(*d*) The names of all students dropped from enrollment, within the period reported on, with the reasons therefor.

50.36 Graduation certificate. Each student who is graduated from a certificated flying school shall be furnished with a graduation certificate by such school, which certificate shall show the flying and ground course or courses completed and the grade obtained by such student in each subject of such course, together with a statement of the graduate's totals of both dual and solo flying time.

50.37 Miscellaneous.

50.370 Flying school regulations to be posted. A copy of these flying school regulations (Part 50) shall be posted conspicuously on the air school bulletin board for the information and guidance of all students enrolled by the school.

50.371 Credit for dual time. When a student applies for a pilot certificate as a graduate of a certificated flying school, such graduate may be privileged to count a portion of his dual or check time toward the solo-flying experience required for a pilot certificate subject to the restrictions set forth in §§ 50.1040, 50.1041, 50.1042 and 50.1043, provided he applies for such certificate within 30 days after the date of graduation.

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