

Examples of Logbook Entries

14 CFR Part 61 Subparts C and E Private Pilot Glider (Initial)

Version: 6/28/2026

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FAASTeam Representative

LESSON PLAN

14 CFR 61.105 Aeronautical knowledge
Applicable Federal Aviation Regulations of this section
Private pilot privileges, limitations, and flight operations
Accident reporting requirements of the NTSB
Use of the applicable portions of FAA AIM and
Use of aeronautical charts for VFR navigation
piloting; dead reckoning; and navigation system
Radio communication procedures
Recognition of critical weather situations from
ground and in flight; windshear avoidance; and
procurement and use of aeronautical weather
Safe and efficient operation of aircraft, including
collision avoidance, and recognition and avoidance of
wake turbulence

CONDITIONS OF FLIGHT

DAY	NIGHT	CROSS-COUNTRY	ACTUAL INSTR.	SIMULATED INSTR.
0.6				

14 CFR 61.87(i) Maneuvers and procedures
Procedures for assembly of the glider, Proper
preparation, aircraft systems, Surface operation
release procedures, Aerotow procedures -
Techniques, Aerotow Climb-Out, Slack Line
Flight at various airspeeds - Indicated Airspeed
spirals, Descents with and without turns and
entry procedure, Collision avoidance, No

Overview

- **Introduction**
- **Background**
- **Objectives**
- **References**
- **14 CFR Part 61**
- **Summary**
- **Additional Resources**
- **Recommendations**
- **Contact Information**

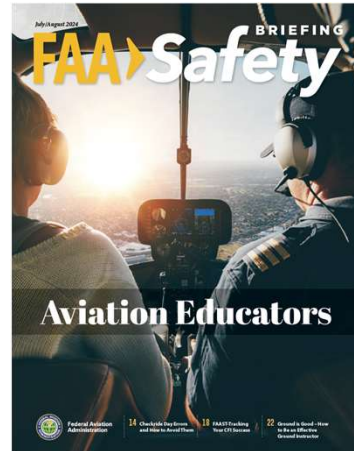
Introduction

Any aeronautical training and experience that is used by airmen to meet the requirements for a certificate or rating must be documented in a reliable record.

This guide is intended to be a review of the requirements of 14 CFR Part 61 Subparts C and E for Private Pilot Glider (Initial) and provides examples of acceptable logbook entries.

Background

- More than 50,000 practical tests canceled
- Issues with endorsements
- Lack of aeronautical experience
- Lack of ground and/or flight training
- Application errors
- Aircraft airworthiness



Reference: FAA Safety Briefing Magazine (July/August 2024)

An article of the July/August 2024 issue of the *FAA Safety Briefing Magazine* looks at common check ride errors and how to prevent them. When this article was first published, more than 50,000 practical tests had been canceled within the preceding 12 months due to issues with endorsements, lack of aeronautical experience, lack of ground and/or flight training, application errors and aircraft airworthiness issues.

Background

**Federal Aviation
Administration**

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Notices

FAA Safety Team
FAASafety Team

FAASafety Team Notice
Type: **Flight Schools & CFIs**
Notice Date: **Thursday, August 21, 2025**
Notice Number: **NOTC4570**
CFIs and DPEs - Avoid Certification Delays
This posting will be removed on **Sunday, April 19, 2026**

Welcome Guest
Login Here

Recently, many practical test applicants have had their practical tests delayed because the name of the applicant entered in IACRA did not EXACTLY match the name displayed on the applicant's Medical and Knowledge Test Report.
Before scheduling any practical tests and to avoid any practical test delays, please make sure the applicant's FULL name is entered into IACRA. If there is any discrepancy, e.g., "John P. Doe" as opposed to the full name "John Plane Doe," the applicant cannot take the practical test and will have to schedule an appointment at the nearest FSDO to correct the issue.
Also, please make sure your practical test applicants have the correct endorsements. Refer to the [Advisory Circular 61.65J](#).
If you have any questions concerning this matter, please contact:
Xavier Coronel
xavier.coronel@faa.gov
(803) 451-2658

Reference: <https://www.faasafety.gov/>

On August 21, 2025 the following FAASafety Team Notice was published regarding name mismatches causing certification delays.

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U.S. Department
of Transportation
Federal Aviation
Administration

Advisory Circular

Subject: Certification: Pilots and Flight and
Ground Instructors

Date: 11/14/25

Initiated by: AFS-800

AC No: 61-65K

Change:

This advisory circular (AC) provides guidance for pilot and instructor applicants, pilots, flight instructors, ground instructors, and examiners on the certification standards, knowledge test procedures, and other requirements in Title 14 of the Code of Federal Regulations (14 CFR) part [61](#).

A handwritten signature in black ink, appearing to read 'Hugh Thomas'.

Hugh Thomas for
Lawrence Fields
Executive Director, Flight Standards Service

Reference: Advisory Circular 61-65 (current version)

Advisory Circular 61-65 (current version) provides guidance for pilot and instructor applicants, pilots, flight instructors, ground instructors, and examiners on the certification standards, knowledge test procedures, and other requirements in Title 14 of the Code of Federal Regulations.

Appendix A of Advisory Circular 61-65 contains sample endorsements for use by authorized instructors when endorsing logbooks.

Background

- 3 **SAFETY MESSAGE.** Safety is the number one goal of all airmen and instructors. This AC is an aviation safety resource that helps avoid risk. Endorsements represent training requirements completed and privileges granted. This AC helps airmen and instructors ensure that all training is completed and documented clearly and concisely. An endorsement marks and formalizes events such as an operating privilege or authorization granted or a limitation incurred. Applying the recommended endorsements reduces the risk that someone will act without a prerequisite or will misunderstand a limitation.

Reference: Advisory Circular 61-65 (current version)

Objectives

- **Review 14 CFR Part 61 for Private Pilot in Glider Category**
- **Provide examples of acceptable pilot logbook entries**
- **Promote aviation safety and compliance**

References

- **14 CFR Part 61 Subpart A, Subpart C and Subpart E**
- **AC 61-65 (current version)**
- **FAA Knowledge Test Matrix (current version)**
- **Learning Statements Reference Guide (current version)**

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14 CFR 61.103 Eligibility Requirements

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- (a) Be at least 17 years of age for a rating in other than a glider or balloon.
- (b) Be at least 16 years of age for a rating in a glider or balloon.
- (c) Be able to read, speak, write, and understand the English language. If the applicant is unable to meet one of these requirements due to medical reasons, then the Administrator may place such operating limitations on that applicant's pilot certificate as are necessary for the safe operation of the aircraft.
- (d) Receive a logbook endorsement from an authorized instructor who:
 - (1) Conducted the training or reviewed the person's home study on the aeronautical knowledge areas listed in [§ 61.105\(b\) of this part](#) that apply to the aircraft rating sought; and
 - (2) Certified that the person is prepared for the required knowledge test.
- (e) Pass the required knowledge test on the aeronautical knowledge areas listed in [§ 61.105\(b\) of this part](#).
- (f) Receive flight training and a logbook endorsement from an authorized instructor who:
 - (1) Conducted the training in the areas of operation listed in [§ 61.107\(b\) of this part](#) that apply to the aircraft rating sought; and
 - (2) Certified that the person is prepared for the required practical test.
- (g) Meet the aeronautical experience requirements of this part that apply to the aircraft rating sought before applying for the practical test.
- (h) Pass a practical test on the areas of operation listed in [§ 61.107\(b\) of this part](#) that apply to the aircraft rating sought.
- (i) Comply with the appropriate sections of this part that apply to the aircraft category and class rating sought.
- (j) Hold a U.S. student pilot certificate, sport pilot certificate, or recreational pilot certificate.

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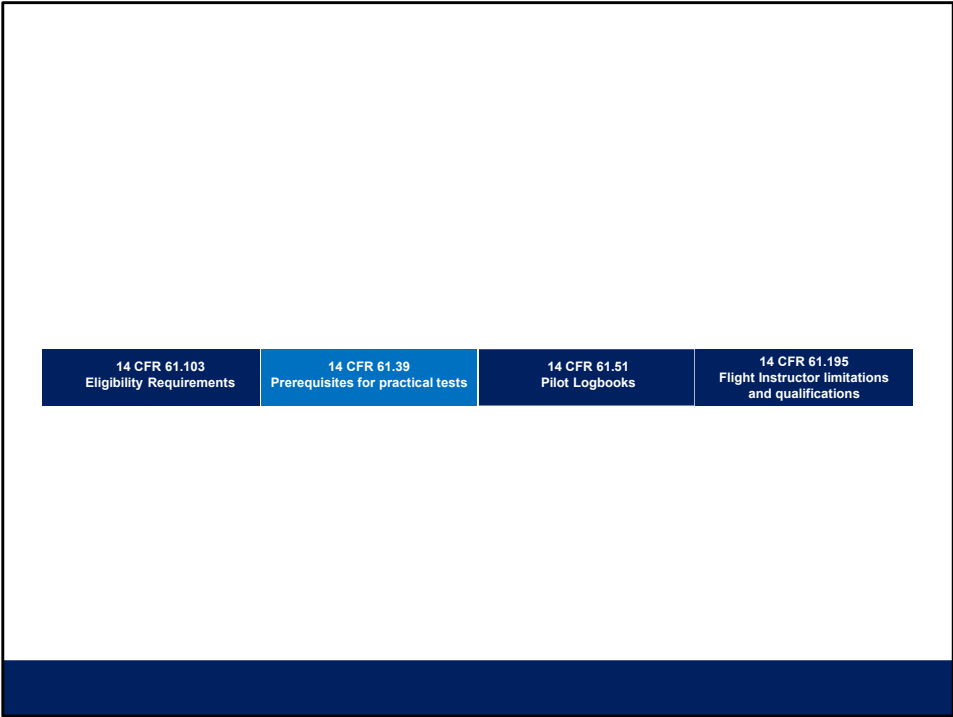
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14 CFR 61.39 Prerequisites for practical tests

(a) Except as provided in paragraphs (b), (c), (e), and (f) of this section, to be eligible for a practical test for a certificate or rating issued under this part, an applicant must:

(1) Pass the required knowledge test:

(i) Within the 24-calendar-month period preceding the month the applicant completes the practical test, if a knowledge test is required; or

(ii) Within the 60-calendar month period preceding the month the applicant completes the practical test for those applicants who complete the airline transport pilot certification training program in § 61.156 and pass the knowledge test for an airline transport pilot certificate with a multiengine class rating after July 31, 2014;

(2) Present the knowledge test report at the time of application for the practical test, if a knowledge test is required;

(3) Have satisfactorily accomplished the required training and obtained the aeronautical experience prescribed by this part for the certificate or rating sought, and:

(i) If applying for the practical test with flight time accomplished under § 61.159(c), present a copy of the records required by § 135.63(a)(4)(vi) and (x) of this chapter; or

(ii) If applying for a practical test for the issuance of an initial category and class rating (if a class rating is required) at the private, commercial, or airline transport pilot certificate level in an aircraft that requires a type rating or a flight simulator or flight training device that represents an aircraft that requires a type rating, meet the eligibility requirements for the type rating or already hold the type rating on their pilot certificate;

(4) Hold at least a third-class medical certificate, if a medical certificate is required;

(5) Meet the prescribed age requirement of this part for the issuance of the certificate or rating sought;

(6) Have an endorsement, if required by this part, in the applicant's logbook or training record that has been signed by an authorized instructor who certifies that the applicant—

(i) Has received and logged training time within 2 calendar months preceding the month of application in preparation for the practical test;

(ii) Is prepared for the required practical test; and

(iii) Has demonstrated satisfactory knowledge of the subject areas in which the applicant was deficient on the airman knowledge test; and

(7) Have a completed and signed application form.

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14 CFR 61.195
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14 CFR 61.39 Prerequisites for practical tests

(a) Except as provided in paragraphs (b), (c), (e), and (f) of this section, to be eligible for a practical test for a certificate or rating issued under this part, an applicant must:

- (1) Pass the required knowledge test:
 - (i) Within the 24-calendar-month period preceding the month the applicant completes the practical test, if a knowledge test is required; or
 - (ii) Within the 60-calendar month period preceding the month the applicant completes the practical test for those applicants who complete the airline transport pilot certification training program in § 61.156 and pass the knowledge test for an airline transport pilot certificate with a multiengine class rating after July 31, 2014;
- (2) Present the knowledge test report at the time of application for the practical test, if a knowledge test is required;
- (3) Have satisfactorily accomplished the required training and obtained the aeronautical experience prescribed by this part for the certificate or rating sought, and:
 - (i) If applying for the practical test with flight time accomplished under § 61.159(c), present a copy of the records required by § 135.63(a)(4)(vi) and (x) of this chapter; or
 - (ii) If applying for a practical test for the issuance of an initial category and class rating (if a class rating is required) at the private, commercial, or airline transport pilot certificate level in an aircraft that requires a type rating or a flight simulator or flight training device that represents an aircraft that requires a type rating, meet the eligibility requirements for the type rating or already hold the type rating on their pilot certificate;
- (4) Hold at least a third-class medical certificate, if a medical certificate is required;
- (5) Meet the prescribed age requirement of this part for the issuance of the certificate or rating sought;
- (6) Have an endorsement, if required by this part, in the applicant's logbook or training record that has been signed by an authorized instructor who certifies that the applicant—
 - (i) Has received and logged training time within 2 calendar months preceding the month of application in preparation for the practical test;
 - (ii) Is prepared for the required practical test; and
 - (iii) Has demonstrated satisfactory knowledge of the subject areas in which the applicant was deficient on the airman knowledge test; and
- (7) Have a completed and signed application form.

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14 CFR 61.39 Prerequisites for practical tests

(a) Except as provided in paragraphs (b), (c), (e), and (f) of this section, to be eligible for a practical test for a certificate or rating issued under this part, an applicant must:

(1) Pass the required knowledge test;

(i) Within the 24-calendar-month period preceding the month the applicant completes the practical test, if a knowledge test is required; or

(ii) Within the 60-calendar month period preceding the month the applicant completes the practical test for those applicants who complete the airline transport pilot certification training program in § 61.156 and pass the knowledge test for an airline transport pilot certificate with a multiengine class rating after July 31, 2014;

(2) Present the knowledge test report at the time of application for the practical test, if a knowledge test is required;

(3) Have satisfactorily accomplished the required training and obtained the aeronautical experience prescribed by this part for the certificate or rating sought, and:

(i) If applying for the practical test with flight time accomplished under § 61.159(c), present a copy of the records required by § 135.63(a)(4)(vi) and (x) of this chapter; or

(ii) If applying for a practical test for the issuance of an initial category and class rating (if a class rating is required) at the private, commercial, or airline transport pilot certificate level in an aircraft that requires a type rating or a flight simulator or flight training device that represents an aircraft that requires a type rating, meet the eligibility requirements for the type rating or already hold the type rating on their pilot certificate;

(4) Hold at least a third-class medical certificate, if a medical certificate is required;

(5) Meet the prescribed age requirement of this part for the issuance of the certificate or rating sought;

(6) Have an endorsement, if required by this part, in the applicant's logbook or training record that has been signed by an authorized instructor who certifies that the applicant—

(i) Has received and logged training time within 2 calendar months preceding the month of application in preparation for the practical test;

(ii) Is prepared for the required practical test; and

(iii) Has demonstrated satisfactory knowledge of the subject areas in which the applicant was deficient on the airman knowledge test; and

(7) Have a completed and signed application form.

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14 CFR 61.39 Prerequisites for practical tests

(a) Except as provided in paragraphs (b), (c), (e), and (f) of this section, to be eligible for a practical test for a certificate or rating issued under this part, an applicant must:

(1) Pass the required knowledge test;

(i) Within the 24-calendar-month period preceding the month the applicant completes the practical test, if a knowledge test is required; or

(ii) Within the 60-calendar month period preceding the month the applicant completes the practical test for those applicants who complete the airline transport pilot certification training program in § 61.156 and pass the knowledge test for an airline transport pilot certificate with a multiengine class rating after July 31, 2014;

(2) Present the knowledge test report at the time of application for the practical test, if a knowledge test is required;

(3) Have satisfactorily accomplished the required training and obtained the aeronautical experience prescribed by this part for the certificate or rating sought, and:

(i) If applying for the practical test with flight time accomplished under § 61.159(c), present a copy of the records required by § 135.63(a)(4)(vi) and (x) of this chapter; or

(ii) If applying for a practical test for the issuance of an initial category and class rating (if a class rating is required) at the private, commercial, or airline transport pilot certificate level in an aircraft that requires a type rating or a flight simulator or flight training device that represents an aircraft that requires a type rating, meet the eligibility requirements for the type rating or already hold the type rating on their pilot certificate;

(4) Hold at least a third-class medical certificate, if a medical certificate is required;

(5) Meet the prescribed age requirement of this part for the issuance of the certificate or rating sought;

(6) Have an endorsement, if required by this part, in the applicant's logbook or training record that has been signed by an authorized instructor who certifies that the applicant—

(i) Has received and logged training time within 2 calendar months preceding the month of application in preparation for the practical test;

(ii) Is prepared for the required practical test; and

(iii) Has demonstrated satisfactory knowledge of the subject areas in which the applicant was deficient on the airman knowledge test; and

(7) Have a completed and signed application form.

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14 CFR 61.39 Prerequisites for practical tests

(a) Except as provided in paragraphs (b), (c), (e), and (f) of this section, to be eligible for a practical test for a certificate or rating issued under this part, an applicant must:

(1) Pass the required knowledge test;

(i) Within the 24-calendar-month period preceding the month the applicant completes the practical test, if a knowledge test is required; or

(ii) Within the 60-calendar month period preceding the month the applicant completes the practical test for those applicants who complete the airline transport pilot certification training program in § 61.156 and pass the knowledge test for an airline transport pilot certificate with a multiengine class rating after July 31, 2014;

(2) Present the knowledge test report at the time of application for the practical test, if a knowledge test is required;

(3) Have satisfactorily accomplished the required training and obtained the aeronautical experience prescribed by this part for the certificate or rating sought, and:

(i) If applying for the practical test with flight time accomplished under § 61.159(c), present a copy of the records required by § 135.63(a)(4)(vi) and (x) of this chapter; or

(ii) If applying for a practical test for the issuance of an initial category and class rating (if a class rating is required) at the private, commercial, or airline transport pilot certificate level in an aircraft that requires a type rating or a flight simulator or flight training device that represents an aircraft that requires a type rating, meet the eligibility requirements for the type rating or already hold the type rating on their pilot certificate;

(4) Hold at least a third-class medical certificate, if a medical certificate is required;

(5) Meet the prescribed age requirement of this part for the issuance of the certificate or rating sought;

(6) Have an endorsement, if required by this part, in the applicant's logbook or training record that has been signed by an authorized instructor who certifies that the applicant—

(i) Has received and logged training time within 2 calendar months preceding the month of application in preparation for the practical test;

(ii) Is prepared for the required practical test; and

(iii) Has demonstrated satisfactory knowledge of the subject areas in which the applicant was deficient on the airman knowledge test; and

(7) Have a completed and signed application form.

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14 CFR 61.39 Prerequisites for practical tests

(a) Except as provided in paragraphs (b), (c), (e), and (f) of this section, to be eligible for a practical test for a certificate or rating issued under this part, an applicant must:

(1) Pass the required knowledge test;

(i) Within the 24-calendar-month period preceding the month the applicant completes the practical test, if a knowledge test is required; or

(ii) Within the 60-calendar month period preceding the month the applicant completes the practical test for those applicants who complete the airline transport pilot certification training program in § 61.156 and pass the knowledge test for an airline transport pilot certificate with a multiengine class rating after July 31, 2014;

(2) Present the knowledge test report at the time of application for the practical test, if a knowledge test is required;

(3) Have satisfactorily accomplished the required training and obtained the aeronautical experience prescribed by this part for the certificate or rating sought, and:

(i) If applying for the practical test with flight time accomplished under § 61.159(c), present a copy of the records required by § 135.63(a)(4)(vi) and (x) of this chapter; or

(ii) If applying for a practical test for the issuance of an initial category and class rating (if a class rating is required) at the private, commercial, or airline transport pilot certificate level in an aircraft that requires a type rating or a flight simulator or flight training device that represents an aircraft that requires a type rating, meet the eligibility requirements for the type rating or already hold the type rating on their pilot certificate;

(4) Hold at least a third-class medical certificate, if a medical certificate is required;

(5) Meet the prescribed age requirement of this part for the issuance of the certificate or rating sought;

(6) Have an endorsement, if required by this part, in the applicant's logbook or training record that has been signed by an authorized instructor who certifies that the applicant—

(i) Has received and logged training time within 2 calendar months preceding the month of application in preparation for the practical test;

(ii) Is prepared for the required practical test; and

(iii) Has demonstrated satisfactory knowledge of the subject areas in which the applicant was deficient on the airman knowledge test; and

(7) Have a completed and signed application form.

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14 CFR 61.39 Prerequisites for practical tests

(a) Except as provided in paragraphs (b), (c), (e), and (f) of this section, to be eligible for a practical test for a certificate or rating issued under this part, an applicant must:

(1) Pass the required knowledge test;

(i) Within the 24-calendar-month period preceding the month the applicant completes the practical test, if a knowledge test is required; or

(ii) Within the 60-calendar month period preceding the month the applicant completes the practical test for those applicants who complete the airline transport pilot certification training program in § 61.156 and pass the knowledge test for an airline transport pilot certificate with a multiengine class rating after July 31, 2014;

(2) Present the knowledge test report at the time of application for the practical test, if a knowledge test is required;

(3) Have satisfactorily accomplished the required training and obtained the aeronautical experience prescribed by this part for the certificate or rating sought, and:

(i) If applying for the practical test with flight time accomplished under § 61.159(c), present a copy of the records required by § 135.63(a)(4)(vi) and (x) of this chapter; or

(ii) If applying for a practical test for the issuance of an initial category and class rating (if a class rating is required) at the private, commercial, or airline transport pilot certificate level in an aircraft that requires a type rating or a flight simulator or flight training device that represents an aircraft that requires a type rating, meet the eligibility requirements for the type rating or already hold the type rating on their pilot certificate;

(4) Hold at least a third-class medical certificate, if a medical certificate is required;

(5) Meet the prescribed age requirement of this part for the issuance of the certificate or rating sought;

(6) Have an endorsement, if required by this part, in the applicant's logbook or training record that has been signed by an authorized instructor who certifies that the applicant—

(i) Has received and logged training time within 2 calendar months preceding the month of application in preparation for the practical test;

(ii) Is prepared for the required practical test; and

(iii) Has demonstrated satisfactory knowledge of the subject areas in which the applicant was deficient on the airman knowledge test; and

(7) Have a completed and signed application form.

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14 CFR 61.39 Prerequisites for practical tests

(a) Except as provided in paragraphs (b), (c), (e), and (f) of this section, to be eligible for a practical test for a certificate or rating issued under this part, an applicant must:

(1) Pass the required knowledge test;

(i) Within the 24-calendar-month period preceding the month the applicant completes the practical test, if a knowledge test is required; or

(ii) Within the 60-calendar month period preceding the month the applicant completes the practical test for those applicants who complete the airline transport pilot certification training program in § 61.156 and pass the knowledge test for an airline transport pilot certificate with a multiengine class rating after July 31, 2014;

(2) Present the knowledge test report at the time of application for the practical test, if a knowledge test is required;

(3) Have satisfactorily accomplished the required training and obtained the aeronautical experience prescribed by this part for the certificate or rating sought, and:

(i) If applying for the practical test with flight time accomplished under § 61.159(c), present a copy of the records required by § 135.63(a)(4)(vi) and (x) of this chapter; or

(ii) If applying for a practical test for the issuance of an initial category and class rating (if a class rating is required) at the private, commercial, or airline transport pilot certificate level in an aircraft that requires a type rating or a flight simulator or flight training device that represents an aircraft that requires a type rating, meet the eligibility requirements for the type rating or already hold the type rating on their pilot certificate;

(4) Hold at least a third-class medical certificate, if a medical certificate is required;

(5) Meet the prescribed age requirement of this part for the issuance of the certificate or rating sought;

(6) Have an endorsement, if required by this part, in the applicant's logbook or training record that has been signed by an authorized instructor who certifies that the applicant—

(i) Has received and logged training time within 2 calendar months preceding the month of application in preparation for the practical test;

(ii) Is prepared for the required practical test; and

(iii) Has demonstrated satisfactory knowledge of the subject areas in which the applicant was deficient on the airman knowledge test; and

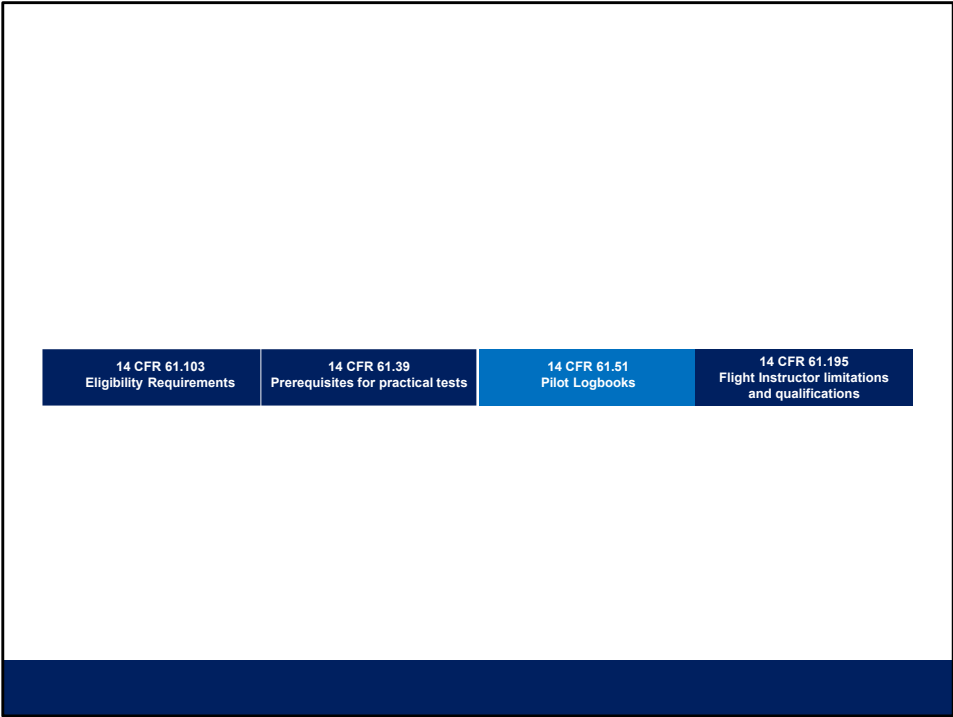
(7) Have a completed and signed application form.

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14 CFR 61.51 Pilot Logbooks

- (a) Training time and aeronautical experience. Each person must document and record the following time in a manner acceptable to the Administrator:
- (1) Training and aeronautical experience used to meet the requirements for a certificate, rating, or flight review of this part.
 - (2) The aeronautical experience required for meeting the recent flight experience requirements of this part.
- (b) Logbook entries. For the purposes of meeting the requirements of [paragraph \(a\)](#) of this section, each person must enter the following information for each flight or lesson logged:
- (1) General—
 - (i) Date.
 - (ii) Total flight time or lesson time.
 - (iii) Location where the aircraft departed and arrived, or for lessons in a full flight simulator or flight training device, the location where the lesson occurred.
 - (iv) Type and identification of aircraft, full flight simulator, flight training device, or aviation training device, as appropriate.
 - (v) The name of a safety pilot, if required by [§ 91.109 of this chapter](#).
 - (2) Type of pilot experience or training—
 - (i) Solo.
 - (ii) Pilot in command.
 - (iii) Second in command.
 - (iv) Flight and ground training received from an authorized instructor.
 - (v) Training received in a full flight simulator, flight training device, or aviation training device from an authorized instructor.
 - (3) Conditions of flight—
 - (i) Day or night.
 - (ii) Actual instrument.
 - (iii) Simulated instrument conditions in flight, a full flight simulator, flight training device, or aviation training device.
 - (iv) Use of night vision goggles in an aircraft in flight, in a full flight simulator, or in a flight training device.

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(a) Training time and aeronautical experience. Each person must document and record the following time in a manner acceptable to the Administrator:

- (1) Training and aeronautical experience used to meet the requirements for a certificate, rating, or flight review of this part.
- (2) The aeronautical experience required for meeting the recent flight experience requirements of this part.

(b) Logbook entries. For the purposes of meeting the requirements of [paragraph \(a\)](#) of this section, each person must enter the following information for each flight or lesson logged:

(1) General—

- (i) Date.
- (ii) Total flight time or lesson time.
- (iii) Location where the aircraft departed and arrived, or for lessons in a full flight simulator or flight training device, the location where the lesson occurred.
- (iv) Type and identification of aircraft, full flight simulator, flight training device, or aviation training device, as appropriate.
- (v) The name of a safety pilot, if required by [§ 91.109 of this chapter](#).

(2) Type of pilot experience or training—

- (i) Solo.
- (ii) Pilot in command.
- (iii) Second in command.
- (iv) Flight and ground training received from an authorized instructor.
- (v) Training received in a full flight simulator, flight training device, or aviation training device from an authorized instructor.

(3) Conditions of flight—

- (i) Day or night.
- (ii) Actual instrument.
- (iii) Simulated instrument conditions in flight, a full flight simulator, flight training device, or aviation training device.
- (iv) Use of night vision goggles in an aircraft in flight, in a full flight simulator, or in a flight training device.

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- (a) Training time and aeronautical experience. Each person must document and record the following time in a manner acceptable to the Administrator:
- (1) Training and aeronautical experience used to meet the requirements for a certificate, rating, or flight review of this part.
- (2) The aeronautical experience required for meeting the recent flight experience requirements of this part.
- (b) Logbook entries. For the purposes of meeting the requirements of [paragraph \(a\)](#) of this section, each person must enter the following information for each flight or lesson logged:
- (1) General—
- (i) Date.
 - (ii) Total flight time or lesson time.
 - (iii) Location where the aircraft departed and arrived, or for lessons in a full flight simulator or flight training device, the location where the lesson occurred.
 - (iv) Type and identification of aircraft, full flight simulator, flight training device, or aviation training device, as appropriate.
 - (v) The name of a safety pilot, if required by [§ 91.109 of this chapter](#).
- (2) Type of pilot experience or training—
- (i) Solo.
 - (ii) Pilot in command.
 - (iii) Second in command.
 - (iv) Flight and ground training received from an authorized instructor.
 - (v) Training received in a full flight simulator, flight training device, or aviation training device from an authorized instructor.
- (3) Conditions of flight—
- (i) Day or night.
 - (ii) Actual instrument.
 - (iii) Simulated instrument conditions in flight, a full flight simulator, flight training device, or aviation training device.
 - (iv) Use of night vision goggles in an aircraft in flight, in a full flight simulator, or in a flight training device.

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(a) Training time and aeronautical experience. Each person must document and record the following time in a manner acceptable to the Administrator:

- (1) Training and aeronautical experience used to meet the requirements for a certificate, rating, or flight review of this part.
- (2) The aeronautical experience required for meeting the recent flight experience requirements of this part.

(b) Logbook entries. For the purposes of meeting the requirements of [paragraph \(a\)](#) of this section, each person must enter the following information for each flight or lesson logged:

(1) General—

(i) Date.

(ii) Total flight time or lesson time.

(iii) Location where the aircraft departed and arrived, or for lessons in a full flight simulator or flight training device, the location where the lesson occurred.

(iv) Type and identification of aircraft, full flight simulator, flight training device, or aviation training device, as appropriate.

(v) The name of a safety pilot, if required by [§ 91.109 of this chapter](#).

(2) Type of pilot experience or training—

(i) Solo.

(ii) Pilot in command.

(iii) Second in command.

(iv) Flight and ground training received from an authorized instructor.

(v) Training received in a full flight simulator, flight training device, or aviation training device from an authorized instructor.

(3) Conditions of flight—

(i) Day or night.

(ii) Actual instrument.

(iii) Simulated instrument conditions in flight, a full flight simulator, flight training device, or aviation training device.

(iv) Use of night vision goggles in an aircraft in flight, in a full flight simulator, or in a flight training device.

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(a) Training time and aeronautical experience. Each person must document and record the following time in a manner acceptable to the Administrator:

- (1) Training and aeronautical experience used to meet the requirements for a certificate, rating, or flight review of this part.
- (2) The aeronautical experience required for meeting the recent flight experience requirements of this part.

(b) Logbook entries. For the purposes of meeting the requirements of [paragraph \(a\)](#) of this section, each person must enter the following information for each flight or lesson logged:

(1) General—

- (i) Date.
- (ii) Total flight time or lesson time.
- (iii) Location where the aircraft departed and arrived, or for lessons in a full flight simulator or flight training device, the location where the lesson occurred.
- (iv) Type and identification of aircraft, full flight simulator, flight training device, or aviation training device, as appropriate.
- (v) The name of a safety pilot, if required by [§ 91.109 of this chapter](#).

(2) Type of pilot experience or training—

- (i) Solo.
- (ii) Pilot in command.
- (iii) Second in command.
- (iv) Flight and ground training received from an authorized instructor.
- (v) Training received in a full flight simulator, flight training device, or aviation training device from an authorized instructor.

(3) Conditions of flight—

- (i) Day or night.
- (ii) Actual instrument.
- (iii) Simulated instrument conditions in flight, a full flight simulator, flight training device, or aviation training device.
- (iv) Use of night vision goggles in an aircraft in flight, in a full flight simulator, or in a flight training device.

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- (a) Training time and aeronautical experience. Each person must document and record the following time in a manner acceptable to the Administrator:
- (1) Training and aeronautical experience used to meet the requirements for a certificate, rating, or flight review of this part.
 - (2) The aeronautical experience required for meeting the recent flight experience requirements of this part.
- (b) Logbook entries. For the purposes of meeting the requirements of [paragraph \(a\)](#) of this section, each person must enter the following information for each flight or lesson logged:
- (1) General—
 - (i) Date.
 - (ii) Total flight time or lesson time.
 - (iii) Location where the aircraft departed and arrived, or for lessons in a full flight simulator or flight training device, the location where the lesson occurred.
 - (iv) Type and identification of aircraft, full flight simulator, flight training device, or aviation training device, as appropriate.
 - (v) The name of a safety pilot, if required by [§ 91.109 of this chapter](#).
 - (2) Type of pilot experience or training—
 - (i) Solo.
 - (ii) Pilot in command.
 - (iii) Second in command.
 - (iv) Flight and ground training received from an authorized instructor.
 - (v) Training received in a full flight simulator, flight training device, or aviation training device from an authorized instructor.
 - (3) Conditions of flight—
 - (i) Day or night.
 - (ii) Actual instrument.
 - (iii) Simulated instrument conditions in flight, a full flight simulator, flight training device, or aviation training device.
 - (iv) Use of night vision goggles in an aircraft in flight, in a full flight simulator, or in a flight training device.

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- (a) Training time and aeronautical experience. Each person must document and record the following time in a manner acceptable to the Administrator:
- (1) Training and aeronautical experience used to meet the requirements for a certificate, rating, or flight review of this part.
 - (2) The aeronautical experience required for meeting the recent flight experience requirements of this part.
- (b) Logbook entries. For the purposes of meeting the requirements of [paragraph \(a\)](#) of this section, each person must enter the following information for each flight or lesson logged:
- (1) General—
 - (i) Date.
 - (ii) Total flight time or lesson time.
 - (iii) Location where the aircraft departed and arrived, or for lessons in a full flight simulator or flight training device, the location where the lesson occurred.
 - (iv) Type and identification of aircraft, full flight simulator, flight training device, or aviation training device, as appropriate.
 - (v) The name of a safety pilot, if required by [§ 91.109](#) of this chapter.
 - (2) Type of pilot experience or training—
 - (i) Solo.
 - (ii) Pilot in command.
 - (iii) Second in command.
 - (iv) Flight and ground training received from an authorized instructor.
 - (v) Training received in a full flight simulator, flight training device, or aviation training device from an authorized instructor.
 - (3) Conditions of flight—
 - (i) Day or night.
 - (ii) Actual instrument.
 - (iii) Simulated instrument conditions in flight, a full flight simulator, flight training device, or aviation training device.
 - (iv) Use of night vision goggles in an aircraft in flight, in a full flight simulator, or in a flight training device.

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- (a) Training time and aeronautical experience. Each person must document and record the following time in a manner acceptable to the Administrator:
- (1) Training and aeronautical experience used to meet the requirements for a certificate, rating, or flight review of this part.
 - (2) The aeronautical experience required for meeting the recent flight experience requirements of this part.
- (b) Logbook entries. For the purposes of meeting the requirements of [paragraph \(a\)](#) of this section, each person must enter the following information for each flight or lesson logged:
- (1) General—
 - (i) Date.
 - (ii) Total flight time or lesson time.
 - (iii) Location where the aircraft departed and arrived, or for lessons in a full flight simulator or flight training device, the location where the lesson occurred.
 - (iv) Type and identification of aircraft, full flight simulator, flight training device, or aviation training device, as appropriate.
 - (v) The name of a safety pilot, if required by [§ 91.109](#) of this chapter.
 - (2) Type of pilot experience or training—
 - (i) Solo.
 - (ii) Pilot in command.
 - (iii) Second in command.
 - (iv) Flight and ground training received from an authorized instructor.
 - (v) Training received in a full flight simulator, flight training device, or aviation training device from an authorized instructor.
 - (3) Conditions of flight—
 - (i) Day or night.
 - (ii) Actual instrument.
 - (iii) Simulated instrument conditions in flight, a full flight simulator, flight training device, or aviation training device.
 - (iv) Use of night vision goggles in an aircraft in flight, in a full flight simulator, or in a flight training device.

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(c) Logging of pilot time. The pilot time described in this section may be used to:

- (1) Apply for a certificate or rating issued under this part or a privilege authorized under this part; or
- (2) Satisfy the recent flight experience requirements of this part.

(d) Logging of solo flight time. Except for a student pilot performing the duties of pilot in command of an airship requiring more than one pilot flight crewmember, a pilot may log as solo flight time only that flight time when the pilot is the sole occupant of the aircraft.

(e) Logging pilot-in-command flight time.

(1) A sport, recreational, private, commercial, or airline transport pilot may log pilot in command flight time for flights—

(i) Except when logging flight time under § 61.159(c), when the pilot is the sole manipulator of the controls of an aircraft for which the pilot is rated, or has sport pilot privileges for that category and class of aircraft, if the aircraft class rating is appropriate;

(ii) When the pilot is the sole occupant in the aircraft;

(iii) When the pilot, except for a holder of a sport or recreational pilot certificate, acts as pilot in command of an aircraft for which more than one pilot is required under the type certification of the aircraft or the regulations under which the flight is conducted; or

(iv) When the pilot performs the duties of pilot in command while under the supervision of a qualified pilot in command provided—

(A) The pilot performing the duties of pilot in command holds a commercial or airline transport pilot certificate and aircraft rating that is appropriate to the category and class of aircraft being flown, if a class rating is appropriate;

(B) The pilot performing the duties of pilot in command is undergoing an approved pilot in command training program that includes ground and flight training on the following areas of operation—

- (1) Preflight preparation;
- (2) Preflight procedures;
- (3) Takeoff and departure;
- (4) In-flight maneuvers;

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(c) Logging of pilot time. The pilot time described in this section may be used to:

- (1) Apply for a certificate or rating issued under this part or a privilege authorized under this part; or
- (2) Satisfy the recent flight experience requirements of this part.

(d) Logging of solo flight time. Except for a student pilot performing the duties of pilot in command of an airship requiring more than one pilot flight crewmember, a pilot may log as solo flight time only that flight time when the pilot is the sole occupant of the aircraft.

(e) Logging pilot-in-command flight time.

(1) A sport, recreational, private, commercial, or airline transport pilot may log pilot in command flight time for flights—

(i) Except when logging flight time under § 61.159(c), when the pilot is the sole manipulator of the controls of an aircraft for which the pilot is rated, or has sport pilot privileges for that category and class of aircraft, if the aircraft class rating is appropriate;

(ii) When the pilot is the sole occupant in the aircraft;

(iii) When the pilot, except for a holder of a sport or recreational pilot certificate, acts as pilot in command of an aircraft for which more than one pilot is required under the type certification of the aircraft or the regulations under which the flight is conducted; or

(iv) When the pilot performs the duties of pilot in command while under the supervision of a qualified pilot in command provided—

(A) The pilot performing the duties of pilot in command holds a commercial or airline transport pilot certificate and aircraft rating that is appropriate to the category and class of aircraft being flown, if a class rating is appropriate;

(B) The pilot performing the duties of pilot in command is undergoing an approved pilot in command training program that includes ground and flight training on the following areas of operation—

- (1) Preflight preparation;
- (2) Preflight procedures;
- (3) Takeoff and departure;
- (4) In-flight maneuvers;

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- (5) Instrument procedures;
- (6) Landings and approaches to landings;
- (7) Normal and abnormal procedures;
- (8) Emergency procedures; and
- (9) Postflight procedures;
- (C) The supervising pilot in command holds—
 - (1) A commercial pilot certificate and flight instructor certificate, and aircraft rating that is appropriate to the category, class, and type of aircraft being flown, if a class or type rating is required; or
 - (2) An airline transport pilot certificate and aircraft rating that is appropriate to the category, class, and type of aircraft being flown, if a class or type rating is required; and
- (D) The supervising pilot in command logs the pilot in command training in the pilot's logbook, certifies the pilot in command training in the pilot's logbook and attests to that certification with his or her signature, and flight instructor certificate number.
- (2) If rated to act as pilot in command of the aircraft, an airline transport pilot may log all flight time while acting as pilot in command of an operation requiring an airline transport pilot certificate.
- (3) A certificated flight instructor may log pilot in command flight time for all flight time while serving as the authorized instructor in an operation if the instructor is rated to act as pilot in command of that aircraft.
- (4) A student pilot may log pilot-in-command time only when the student pilot—
 - (i) Is the sole occupant of the aircraft or is performing the duties of pilot of command of an airship requiring more than one pilot flight crewmember;
 - (ii) Has a solo flight endorsement as required under § 61.87 of this part; and
 - (iii) Is undergoing training for a pilot certificate or rating.
- (5) A commercial pilot or airline transport pilot may log all flight time while acting as pilot in command of an operation in accordance with § 135.99(c) of this chapter if the flight is conducted in accordance with an approved second-in-command professional development program that meets the requirements of § 135.99(c) of this chapter.

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(f) Logging second-in-command flight time. A person may log second-in-command time only for that flight time during which that person:

- (1) Is qualified in accordance with the second-in-command requirements of [§ 61.55](#), and occupies a crewmember station in an aircraft that requires more than one pilot by the aircraft's type certificate;
- (2) Holds the appropriate category, class, and instrument rating (if a class or instrument rating is required for the flight) for the aircraft being flown, and more than one pilot is required under the type certification of the aircraft or the regulations under which the flight is being conducted; or
- (3) Serves as second-in-command in operations conducted in accordance with [§ 135.99\(c\) of this chapter](#) when a second pilot is not required under the type certification of the aircraft or the regulations under which the flight is being conducted, provided the requirements in [§ 61.159\(c\)](#) are satisfied; or
- (4) Is designated by a government entity as second-in-command when operating in accordance with [paragraph \(i\)\(4\)](#) of this section, provided the aircraft used is a large aircraft or turbo-jet powered airplane or holds or originally held a type certificate that requires a second pilot provided that:
 - (i) Second-in-command time logged under this [paragraph \(f\)\(4\)](#) may not be used to meet the aeronautical experience requirements for the private or commercial pilot certificates or an instrument rating; and
 - (ii) An applicant for an airline transport pilot certificate who logs second in command time under this [paragraph \(f\)\(4\)](#) in an aircraft that is not type certificated for two pilots issued an airline transport pilot certificate with the limitation "Holder does not meet the pilot in command aeronautical experience requirements of ICAO," as prescribed under Article 39 of the Convention on International Civil Aviation if the applicant does not meet the ICAO requirements contained in Annex 1 "Personnel Licensing" to the Convention on International Civil Aviation. An applicant is entitled to an airline transport pilot certificate without the ICAO limitation specified under this [paragraph \(f\)\(4\)\(ii\)](#) when the applicant presents satisfactory evidence of having met the ICAO requirements and otherwise meets the aeronautical experience requirements of [§ 61.159](#) or [§ 61.161](#), as applicable.

(g) Logging instrument time.

- (1) A person may log instrument time only for that flight time when the person operates the aircraft solely by reference to instruments under actual or simulated instrument flight conditions.

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(2) An authorized instructor may log instrument time when conducting instrument flight instruction in actual instrument flight conditions.

(3) For the purposes of logging instrument time to meet the recent instrument experience requirements of [§ 61.57\(c\) of this part](#), the following information must be recorded in the person's logbook—

- (i) The location and type of each instrument approach accomplished; and
- (ii) The name of the safety pilot, if required.

(4) A person may use time in a full flight simulator, flight training device, or aviation training device for acquiring instrument aeronautical experience for a pilot certificate or rating provided an authorized instructor is present to observe that time and signs the person's logbook or training record to verify the time and the content of the training session.

(5) A person may use time in a full flight simulator, flight training device, or aviation training device for satisfying instrument recency experience requirements provided a logbook or training record is maintained to specify the training device, time, and the content.

(h) Logging training time.

(1) A person may log training time when that person receives training from an authorized instructor in an aircraft, full flight simulator, flight training device, or aviation training device.

(2) The training time must be logged in a logbook and must:

(i) Be endorsed in a legible manner by the authorized instructor; and

(ii) Include a description of the training given, the length of the training lesson, and the authorized instructor's signature, certificate number, and certificate expiration date or recent experience end date, consistent with the requirements of [§ 61.197](#).

(i) Presentation of required documents.

(1) Persons must present their pilot certificate, medical certificate, logbook, or any other record required by this part for inspection upon a reasonable request by—

(i) The Administrator;

(ii) An authorized representative from the National Transportation Safety Board; or

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(iii) Any Federal, State, or local law enforcement officer.

(2) A student pilot must carry the following items in the aircraft on all solo cross-country flights as evidence of the required authorized instructor clearances and endorsements—

(i) Pilot logbook;

(ii) Student pilot certificate; and

(iii) Any other record required by this section.

(3) A sport pilot must carry his or her logbook or other evidence of required authorized instructor endorsements on all flights.

(4) A recreational pilot must carry his or her logbook with the required authorized instructor endorsements on all solo flights—

(i) That exceed 50 nautical miles from the airport at which training was received;

(ii) Within airspace that requires communication with air traffic control;

(iii) Conducted between sunset and sunrise; or

(iv) In an aircraft for which the pilot does not hold an appropriate category or class rating.

(5) A flight instructor with a sport pilot rating must carry his or her logbook or other evidence of required authorized instructor endorsements on all flights when providing flight training.

(j) Aircraft requirements for logging flight time. For a person to log flight time, the time must be acquired in an aircraft that is identified as an aircraft under § 61.5(b), and is—

(1) An aircraft of U.S. registry with either a standard or special airworthiness certificate;

(2) An aircraft of foreign registry with an airworthiness certificate that is approved by the aviation authority of a foreign country that is a Member State to the Convention on International Civil Aviation Organization;

(3) A military aircraft under the direct operational control of the U.S. Armed Forces; or

(4) An aircraft used to conduct a public aircraft operation under 49 U.S.C. 40102(a)(41) and 40125.

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- (k) Logging night vision goggle time.
- (1) A person may log night vision goggle time only for the time the person uses night vision goggles as the primary visual reference of the surface and operates:
 - (i) An aircraft during a night vision goggle operation; or
 - (ii) A full flight simulator or flight training device with the lighting system adjusted to represent the period beginning 1 hour after sunset and ending 1 hour before sunrise.
- (2) An authorized instructor may log night vision goggle time when that person conducts training using night vision goggles as the primary visual reference of the surface and operates:
 - (i) An aircraft during a night goggle operation; or
 - (ii) A full flight simulator or flight training device with the lighting system adjusted to represent the period beginning 1 hour after sunset and ending 1 hour before sunrise.
- (3) To log night vision goggle time to meet the recent night vision goggle experience requirements under [§ 61.57\(f\)](#), a person must log the information required under [§ 61.51\(b\)](#).

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A person who holds a flight instructor certificate is subject to the following limitations:

(a) Hours of training. In any 24-consecutive-hour period, a flight instructor may not conduct more than 8 hours of flight training.

(b) Aircraft ratings. Except as provided in [paragraph \(c\)](#) of this section, a flight instructor may not conduct flight training in any aircraft unless the flight instructor:

- (1) Holds a flight instructor certificate with the applicable category and class rating;
- (2) Holds a pilot certificate with the applicable category and class rating; and
- (3) Meets the requirements of [paragraph \(e\)](#) of this section, if applicable.

(c) Instrument rating. A flight instructor may conduct instrument training for the issuance of an instrument rating, a type rating not limited to VFR, or the instrument training required for commercial pilot and airline transport pilot certificates if the following requirements are met:

(1) Except as provided in [paragraph \(c\)\(2\)](#) of this section, the flight instructor must hold an instrument rating appropriate to the aircraft used for the instrument training on his or her flight instructor certificate, and—

- (i) Meet the requirements of [paragraph \(b\)](#) of this section; or
 - (ii) Hold a commercial pilot certificate or airline transport pilot certificate with the appropriate category and class ratings for the aircraft in which the instrument training is conducted provided the pilot receiving instrument training holds a pilot certificate with category and class ratings appropriate to the aircraft in which the instrument training is being conducted.
- (2) If the flight instructor is conducting the instrument training in a multiengine airplane, the flight instructor must hold an instrument rating appropriate to the aircraft used for the instrument training on his or her flight instructor certificate and meet the requirements of [paragraph \(b\)](#) of this section.

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(d) Limitations on endorsements. A flight instructor may not endorse a:

(1) Student pilot's logbook for solo flight privileges, unless that flight instructor has—

(i) Given that student the flight training required for solo flight privileges required by this part; and

(ii) Determined that the student is prepared to conduct the flight safely under known circumstances, subject to any limitations listed in the student's logbook that the instructor considers necessary for the safety of the flight.

(2) Student pilot's logbook for a solo cross-country flight, unless that flight instructor has determined the student's flight preparation, planning, equipment, and proposed procedures are adequate for the proposed flight under the existing conditions and within any limitations listed in the logbook that the instructor considers necessary for the safety of the flight;

(3) Student pilot's logbook for solo flight in a Class B airspace area or at an airport within Class B airspace unless that flight instructor has—

(i) Given that student ground and flight training in that Class B airspace or at that airport; and

(ii) Determined that the student is proficient to operate the aircraft safely.

(4) Logbook of a recreational pilot, unless that flight instructor has—

(i) Given that pilot the ground and flight training required by this part; and

(ii) Determined that the recreational pilot is proficient to operate the aircraft safely.

(5) Logbook of a pilot for a flight review, unless that instructor has conducted a review of that pilot in accordance with the requirements of [§ 61.56\(a\) of this part](#); or

(6) Logbook of a pilot for an instrument proficiency check, unless that instructor has tested that pilot in accordance with the requirements of [§ 61.57\(d\) of this part](#).

(e) Training in an aircraft that requires a type rating. A flight instructor may not give flight instruction, including instrument training, in an aircraft that requires the pilot in command to hold a type rating unless the flight instructor holds a type rating for that aircraft on his or her pilot certificate.

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(f) Training received in a multiengine airplane, a helicopter, or a powered-lift. A flight instructor may not give training required for the issuance of a certificate or rating in a multiengine airplane, a helicopter, or a powered-lift unless that flight instructor has at least 5 flight hours of pilot-in-command time in the specific make and model of multiengine airplane, helicopter, or powered-lift, as appropriate.

(g) Position in aircraft and required pilot stations for providing flight training.

(1) A flight instructor must perform all training from in an aircraft that complies with the requirements of [§ 91.109 of this chapter](#).

(2) A flight instructor who provides flight training for a pilot certificate or rating issued under this part must provide that flight training in an aircraft that meets the following requirements—

(i) The aircraft must have at least two pilot stations and be of the same category, class, and type, if appropriate, that applies to the pilot certificate or rating sought.

(ii) For single-place aircraft, the pre-solo flight training must have been provided in an aircraft that has two pilot stations and is of the same category, class, and type, if appropriate.

(h) Qualifications to provide ground or flight training to initial flight instructor applicants —

(1) Ground training. The ground training provided to an initial applicant for a flight instructor certificate must be given by an authorized instructor who—

(i) Holds a ground or flight instructor certificate with the appropriate rating, has held that certificate for at least 24 calendar months, and has given at least 40 hours of ground training; or

(ii) Holds a ground or flight instructor certificate with the appropriate rating, and has given at least 100 hours of ground training in an FAA-approved course.

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(2) Flight training. A flight instructor who provides flight training to an initial applicant for a flight instructor certificate must meet the eligibility requirements prescribed in § 61.183; hold the appropriate flight instructor certificate and rating; meet the requirements of the part under which the flight training is provided; and meet one of the following requirements—

- (i) Have held a flight instructor certificate for at least 24 calendar months; and
 - (A) For training in preparation for an airplane, rotorcraft, or powered-lift rating, have given at least 200 hours of flight training as a flight instructor; or
 - (B) For training in preparation for a glider rating, have given at least 80 hours of flight training as a flight instructor;
- (ii) Have trained and endorsed, during the preceding 24 calendar months, at least five applicants for a practical test for a pilot certificate or rating, and at least 80 percent of all applicants endorsed in that period passed that test on their first attempt; or
- (iii) After completing the flight training requirements in [paragraph \(h\)\(2\)\(i\)\(A\)](#) or [\(B\)](#) of this section, as appropriate, have graduated from an FAA-approved flight instructor enhanced qualification training program that satisfies the requirements specified in [paragraph \(h\)\(3\)](#) of this section.

(3) Flight instructor enhanced qualification training program. A flight instructor enhanced qualification training program must be approved and conducted under [part 141](#) or [142 of this chapter](#), and meet the following requirements—

- (i) The ground training must include at least 25 hours of instruction that includes the following subjects:
 - (A) Flight instructor responsibilities, functions, lesson planning, and risk management, including how to instruct an initial flight instructor applicant on these subjects.
 - (B) Teaching methods, procedures, and techniques applicable to instructing an initial flight instructor applicant.
 - (C) Methods of proper evaluation of an initial flight instructor applicant to detect improper and insufficient transfer of instructional knowledge, training, and performance of the initial flight instructor applicant.
 - (D) Corrective action in the case of unsatisfactory training progress.
- (ii) The flight training must include at least 10 hours of training that includes the following areas:

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- (A) Scenario-based training to develop the flight instructor's ability to instruct an initial flight instructor applicant how to satisfactorily perform the procedures and maneuvers while giving effective flight training.
- (B) Instructional knowledge and proficiency to teach an initial flight instructor applicant in abnormal and emergency procedures, which must include stall awareness, spin entry, spins, and spin recovery procedures, if applicable to the category and class of aircraft used in the flight instructor enhanced qualification training program.
- (C) Risk management and potential results of improper, untimely, or non-execution of safety measures critical to flight training.
- (D) Methods of proper evaluation of an initial flight instructor applicant to detect improper and insufficient transfer of instructional knowledge, training, and performance of the initial flight instructor applicant.
- (E) Corrective action in the case of unsatisfactory training progress.
- (F) Methods to detect personal characteristics of an initial flight instructor applicant that could adversely affect safety.
- (iii) Each flight instructor enrolled in the flight instructor enhanced qualification training program must satisfactorily complete an end-of-course written test specific to the ground training subjects in [paragraph \(h\)\(3\)\(i\)](#) of this section and an end-of-course instructional proficiency flight test specific to the flight training areas in [paragraph \(h\)\(3\)\(ii\)](#) of this section.
- (iv) A full flight simulator or flight training device may be used to meet the flight training requirements of [paragraph \(h\)\(3\)\(ii\)](#) of this section. The FFS or FTD must be—
 - (A) Qualified and maintained in accordance with [part 60 of this chapter](#), or a previously qualified device as permitted in accordance with [§ 60.17 of this chapter](#);
 - (B) Approved by the Administrator pursuant to [§ 61.4\(a\)](#); and
 - (C) Used in accordance with the part under which the FAA-approved course is conducted.
- (v) A maximum of 5 hours of training received in an advanced aviation training device may be used to meet the flight training requirements of [paragraph \(h\)\(3\)\(ii\)](#) of this section for part 141 flight instructor enhanced qualification training programs. The advanced aviation training device must be—

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- (A) Approved by the Administrator pursuant to [§ 61.4\(c\)](#); and
- (B) Used in accordance with [part 141 of this chapter](#).
- (vi) No certificate holder may use a person, nor may any person serve, as an instructor of the flight instructor enhanced qualification training program unless the instructor holds a flight instructor certificate or ground instructor certificate and meets one of the following qualifications:
- (A) Serves as a chief instructor or assistant chief instructor in a part 141 pilot school;
- (B) Serves as a training center program manager or assistant training center program manager of a part 142 training center; or
- (C) Meets the qualifications of an assistant chief instructor, pursuant to [§ 141.36\(d\)](#).
- (vii) A part 141 pilot school or part 142 training center must issue a graduation certificate to each flight instructor who successfully completes the flight instructor enhanced qualification training program.
- (i) Prohibition against self-endorsements. A flight instructor shall not make any self-endorsement for a certificate, rating, flight review, authorization, operating privilege, practical test, or knowledge test that is required by this part.
- (j) Additional qualifications required to give training in Category II or Category III operations. A flight instructor may not give training in Category II or Category III operations unless the flight instructor has been trained and tested in Category II or Category III operations, pursuant to [§ 61.67](#) or [§ 61.68 of this part](#), as applicable.
- (k) Training for night vision goggle operations. A flight instructor may not conduct training for night vision goggle operations unless the flight instructor:
- (1) Has a pilot and flight instructor certificate with the applicable category and class rating for the training;
 - (2) If appropriate, has a type rating on his or her pilot certificate for the aircraft;

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(3) Is pilot in command qualified for night vision goggle operations, in accordance with [§ 61.31\(k\)](#);
 (4) Has logged 100 night vision goggle operations as the sole manipulator of the controls;
 (5) Has logged 20 night vision goggle operations as the sole manipulator of the controls in the category and class, and type of aircraft, if aircraft class and type is appropriate, that the training will be given in;
 (6) Is qualified to act as pilot in command in night vision goggle operations under [§ 61.57\(f\)](#) or [\(g\)](#); and
 (7) Has a logbook endorsement from an FAA Aviation Safety Inspector or a person who is authorized by the FAA to provide that logbook endorsement that states the flight instructor is authorized to perform the night vision goggle pilot in command qualification and recent flight experience requirements under [§ 61.31\(k\)](#) and [§ 61.57\(f\)](#) and [\(g\)](#).

(l) Training on control and maneuvering an aircraft solely by reference to the instruments. A flight instructor may conduct flight training on control and maneuvering an airplane solely by reference to the flight instruments, provided the flight instructor—

(1) Holds a flight instructor certificate with the applicable category and class rating; or
 (2) Holds an instrument rating appropriate to the aircraft used for the training on his or her flight instructor certificate, and holds a commercial pilot certificate or airline transport pilot certificate with the appropriate category and class ratings for the aircraft in which the training is conducted provided the pilot receiving the training holds a pilot certificate with category and class ratings appropriate to the aircraft in which the training is being conducted.

(m) Training in an aircraft with a simplified flight controls designation. A flight instructor may not conduct instruction in a simplified flight control designation aircraft unless they hold the appropriate category and class rating prior to adding the make and model endorsement required by [§ 61.31\(l\)](#).

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- (n) Initial cadre training in an aircraft with a simplified flight controls designation.
- (1) For purposes of this [paragraph \(n\)](#), instructor pilot means a pilot employed or used by a manufacturer of an aircraft with a simplified flight controls designation to conduct operations of that aircraft for the purpose of providing crew training.
- (2) A flight instructor may conduct flight training in an aircraft with a simplified flight controls designation without satisfying the training and endorsement requirements under [§ 61.31\(i\)](#), provided the flight instructor—
- (i) Holds a flight instructor certificate with the appropriate aircraft category and class, (if a class is required);
 - (ii) Has received and logged model-specific training in that aircraft from an instructor pilot for the manufacturer of the aircraft; and
 - (iii) Has received a logbook or training record endorsement from the instructor pilot certifying that the flight instructor is proficient in the safe operation of that model-specific aircraft and the associated simplified flight controls.
- (3) Notwithstanding the requirements in [§ 61.3\(d\)\(2\)\(ii\)](#), an instructor pilot may provide the training and endorsement specified in [paragraph \(n\)\(2\)](#) of this section in lieu of an authorized instructor.

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14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
				14 CFR 61.109 Aeronautical Experience (Solo Flights)

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
			14 CFR 61.109 Aeronautical Experience (Solo Flights)	
14 CFR 61.107 Flight Proficiency				Endorsement

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots				
14 CFR 61.31 Additional training required for operating a glider				
			14 CFR 61.109 Aeronautical Experience (Solo Flights)	
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
				14 CFR 61.109 Aeronautical Experience (Solo Flights)
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

14 CFR 61.105 Aeronautical Knowledge

(a) **General.** A person who is applying for a private pilot certificate must receive and log ground training from an authorized instructor or complete a home-study course on the aeronautical knowledge areas of [paragraph \(b\)](#) of this section that apply to the aircraft category and class rating sought.

(b) **Aeronautical knowledge areas.**

- (1) Applicable Federal Aviation Regulations of this chapter that relate to private pilot privileges, limitations, and flight operations;
- (2) Accident reporting requirements of the National Transportation Safety Board;
- (3) Use of the applicable portions of the "Aeronautical Information Manual" and FAA advisory circulars;
- (4) Use of aeronautical charts for VFR navigation using pilotage, dead reckoning, and navigation systems;
- (5) Radio communication procedures;
- (6) Recognition of critical weather situations from the ground and in flight, windshear avoidance, and the procurement and use of aeronautical weather reports and forecasts;
- (7) Safe and efficient operation of aircraft, including collision avoidance, and recognition and avoidance of wake turbulence;
- (8) Effects of density altitude on takeoff and climb performance;
- (9) Weight and balance computations;
- (10) Principles of aerodynamics, powerplants, and aircraft systems;
- (11) Stall awareness, spin entry, spins, and spin recovery techniques for the airplane and glider category ratings;
- (12) Aeronautical decision making and judgment; and
- (13) Preflight action that includes—
 - (i) How to obtain information on runway lengths at airports of intended use, data on takeoff and landing distances, weather reports and forecasts, and fuel requirements; and
 - (ii) How to plan for alternatives if the planned flight cannot be completed or delays are encountered.

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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14 CFR 61.105 Aeronautical Knowledge

(a) **General.** A person who is applying for a private pilot certificate must receive and log ground training from an authorized instructor or complete a home-study course on the aeronautical knowledge areas of paragraph (b) of this section that apply to the aircraft category and class rating sought.

(b) **Aeronautical knowledge areas.**

- (1) Applicable Federal Aviation Regulations of this chapter that relate to private pilot privileges, limitations, and flight operations;
- (2) Accident reporting requirements of the National Transportation Safety Board;
- (3) Use of the applicable portions of the "Aeronautical Information Manual" and FAA advisory circulars;
- (4) Use of aeronautical charts for VFR navigation using pilotage, dead reckoning, and navigation systems;
- (5) Radio communication procedures;
- (6) Recognition of critical weather situations from the ground and in flight, windshear avoidance, and the procurement and use of aeronautical weather reports and forecasts;
- (7) Safe and efficient operation of aircraft, including collision avoidance, and recognition and avoidance of wake turbulence;
- (8) Effects of density altitude on takeoff and climb performance;
- (9) Weight and balance computations;
- (10) Principles of aerodynamics, powerplants, and aircraft systems;
- (11) Stall awareness, spin entry, spins, and spin recovery techniques for the airplane and glider category ratings;
- (12) Aeronautical decision making and judgment; and
- (13) Preflight action that includes—
 - (i) How to obtain information on runway lengths at airports of intended use, data on takeoff and landing distances, weather reports and forecasts, and fuel requirements; and
 - (ii) How to plan for alternatives if the planned flight cannot be completed or delays are encountered.

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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14 CFR 61.105 Aeronautical Knowledge

(a) **General.** A person who is applying for a private pilot certificate must receive and log ground training from an authorized instructor or complete a home-study course on the aeronautical knowledge areas of paragraph (b) of this section that apply to the aircraft category and class rating sought.

(b) Aeronautical knowledge areas:

- (1) Applicable Federal Aviation Regulations of this chapter that relate to private pilot privileges, limitations, and flight operations;
- (2) Accident reporting requirements of the National Transportation Safety Board;
- (3) Use of the applicable portions of the "Aeronautical Information Manual" and FAA advisory circulars;
- (4) Use of aeronautical charts for VFR navigation using pilotage, dead reckoning, and navigation systems;
- (5) Radio communication procedures;
- (6) Recognition of critical weather situations from the ground and in flight, windshear avoidance, and the procurement and use of aeronautical weather reports and forecasts;
- (7) Safe and efficient operation of aircraft, including collision avoidance, and recognition and avoidance of wake turbulence;
- (8) Effects of density altitude on takeoff and climb performance;
- (9) Weight and balance computations;
- (10) Principles of aerodynamics, powerplants, and aircraft systems;
- (11) Stall awareness, spin entry, spins, and spin recovery techniques for the airplane and glider category ratings;
- (12) Aeronautical decision making and judgment; and
- (13) Preflight action that includes—
 - (i) How to obtain information on runway lengths at airports of intended use, data on takeoff and landing distances, weather reports and forecasts, and fuel requirements; and
 - (ii) How to plan for alternatives if the planned flight cannot be completed or delays are encountered.

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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Example

GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL

GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement	
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Example

DATE

GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL
12/26/25				

GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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Example

DESCRIPTION OF THE LESSON

[illegible]

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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Example

TOTAL LESSON TIME

[illegible]

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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Example

AUTHORIZED INSTRUCTOR'S SIGNATURE
 CERTIFICATE NUMBER
 CERTIFICATE EXPIRATION DATE OR
 RECENT EXPERIENCE END DATE

GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL
	14 CFR 61.105 Aeronautical knowledge			
12/26/25	(1) Applicable Federal Aviation Regulations of this chapter that relate to private pilot privileges, limitations, and flight operations	/s/ J. J. Jones 987654321CFE 12-31-2026	8.0 hrs.	8.0 hrs.

GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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Example

GROUND INSTRUCTION LOG					GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL	DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL
	14 CFR 61.105 Aeronautical knowledge								
12/26/25	(1) Applicable Federal Aviation Regulations of this chapter that relate to private pilot privileges, limitations, and flight operations	/s/ J. J. Jones 987654321CFI RE 12-31-2026	8.0 hrs.	8.0 hrs.	1/4/26	(8) Effects of density altitude on takeoff and climb performance	/s/ J. J. Jones 987654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.
12/26/26	(2) Accident reporting requirements of the NTSB	/s/ J. J. Jones 987654321CFI RE 12-31-2026	0.3 hrs.	0.3 hrs.	1/5/26	(9) Weight and balance computations.	/s/ J. J. Jones 987654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.
12/27/25	(3) Use of the applicable portions of FAA AIM and ACs	/s/ J. J. Jones 987654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.	1/6/26	(10) Principles of aerodynamics and aircraft systems	/s/ J. J. Jones 987654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.
12/28/25	(4) Use of aeronautical charts for VFR navigation using pilotage, dead reckoning, and navigation systems	/s/ J. J. Jones 987654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.	1/7/26	(11) Stall awareness, spin entry, spins, and spin recovery techniques	/s/ J. J. Jones 987654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.
12/29/25	(5) Radio communication procedures	/s/ J. J. Jones 987654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.	1/8/26	(12) Aeronautical decision making and judgment	/s/ J. J. Jones 987654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.
12/30/25	(6) Recognition of critical weather situations from the ground and in flight; windshear avoidance; and the procurement and use of aeronautical weather reports and forecasts	/s/ J. J. Jones 987654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.	1/9/26	(13) Preflight action that includes— (i) How to obtain information on runway lengths at airports of intended use, weather reports and forecasts (ii) How to plan for alternatives if the planned flight cannot be completed or delays are encountered.	/s/ J. J. Jones 987654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.
1/3/26	(7) Safe and efficient operation of aircraft, including collision avoidance, and recognition and avoidance of wake turbulence	/s/ J. J. Jones 987654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.					

14 CFR 61.105
Aeronautical Knowledge

Endorsement

14 CFR 61.39, 14 CFR 61.103
Airman Knowledge Test

14 CFR 61.39
Review of deficiencies identified
on airman knowledge test

Endorsement

Endorsement

Reference: AC 61-65 (current version)

Aeronautical knowledge test: 14 CFR 61.35(a)(1), 61.103(d), and 61.105.

I certify that [First name, MI, Last name] has received the required training in accordance with 14 CFR 61.105. I have determined he/she is prepared for the PRIVATE PILOT GLIDER knowledge test.

/s/ J. J. Jones 987654321CFI RE 12-31-2026

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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To be eligible for a private pilot certificate, a person must:

Receive a logbook endorsement from an authorized instructor who:

- (1) Conducted the training or reviewed the person's home study on the aeronautical knowledge areas listed in [§ 61.105\(b\) of this part](#) that apply to the aircraft rating sought; and
- (2) Certified that the person is prepared for the required knowledge test.

An endorsement must be legible and include the instructor's signature, date of signature, certificated flight instructor (CFI) or certificated ground instructor certificate number, and flight instructor recent experience (RE) end date or certificate expiration date, as applicable.

FAA Airman Knowledge Testing Matrix

Reference: https://www.faa.gov/training_testing/testing

RECREATIONAL & PRIVATE PILOT

Airman Knowledge Testing Supplement for Sport Pilot, Recreational Pilot, Remote Pilot, and Private Pilot, FAA-CT-8080-2H (2018)

TEST CODE	TEST NAME	NUMBER OF QUESTIONS	AGE	ALLOTTED TIME	PASSING SCORE
PAR	Private Pilot Airplane	60	15	2.0	70
PAT	Private Pilot Airplane/Recreational Pilot - Transition	30	15	1.5	70
PBG	Private Pilot Balloon - Gas	60	14	2.5	70
PBH	Private Pilot Balloon - Hot Air	60	14	2.5	70
PCH	Private Pilot Helicopter <i>Canadian Conversion</i>	40	16	2.0	70
PCP	Private Pilot Airplane <i>Canadian Conversion</i>	40	16	2.0	70
PEP	Private Pilot Airplane <i>EU Part – FCL Conversion</i>	40	16	2.0	70
PFB	Private Pilot Airplane <i>Foreign Pilot via BASA (61.71)</i>	40	N/A	2.0	70
PGL	Private Pilot Glider	60	14	2.5	70
PGT	Private Pilot Gyroplane/Recreational Pilot - Transition	30	15	1.5	70
PHT	Private Pilot Helicopter/Recreational Pilot - Transition	30	15	1.5	70
PLA	Private Pilot Airship	60	15	2.5	70
PPP	Private Pilot Powered Parachute	60	15	2.5	70
PRG	Private Pilot Gyroplane	60	15	2.5	70
PRH	Private Pilot Helicopter	60	15	2.0	70
PWS	Private Pilot Weight-Shift-Control	60	15	2.5	70
RPA	Recreational Pilot Airplane	50	15	2.0	70
RPG	Recreational Pilot Gyroplane	50	15	2.0	70
RPH	Recreational Pilot Helicopter	50	15	2.0	70

Test Codes, highlighted in blue, indicate the corresponding test has Airman Certification Standards (ACS) Codes printed on the Airman Knowledge Test Report (AKTR).

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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FAA Airman Knowledge Testing Matrix

Reference: https://www.faa.gov/training_testing/testing

RECREATIONAL & PRIVATE PILOT

Airman Knowledge Testing Supplement for Sport Pilot, Recreational Pilot, Remote Pilot, and Private Pilot, FAA-CT-8080-2H (2018)

TEST CODE	TEST NAME	NUMBER OF QUESTIONS	AGE	ALLOTTED TIME	PASSING SCORE
PAR	Private Pilot Airplane	60	15	2.0	70
PAT	Private Pilot Airplane/Recreational Pilot - Transition	30	15	1.5	70
PBG	Private Pilot Balloon - Gas	60	14	2.5	70
PBH	Private Pilot Balloon - Hot Air	60	14	2.5	70
PCH	Private Pilot Helicopter <i>Canadian Conversion</i>	40	16	2.0	70
PCP	Private Pilot Airplane <i>Canadian Conversion</i>	40	16	2.0	70
PEP	Private Pilot Airplane <i>EU Part – FCL Conversion</i>	40	16	2.0	70
PFB	Private Pilot Airplane <i>Foreign Pilot via BASA (61.71)</i>	40	N/A	2.0	70
PGL	Private Pilot Glider	60	14	2.5	70
PGT	Private Pilot Gyroplane/Recreational Pilot - Transition	30	15	1.5	70
PHT	Private Pilot Helicopter/Recreational Pilot - Transition	30	15	1.5	70
PLA	Private Pilot Airship	60	15	2.5	70
PPP	Private Pilot Powered Parachute	60	15	2.5	70
PRG	Private Pilot Gyroplane	60	15	2.5	70
PRH	Private Pilot Helicopter	60	15	2.0	70
PWS	Private Pilot Weight-Shift-Control	60	15	2.5	70
RPA	Recreational Pilot Airplane	50	15	2.0	70
RPG	Recreational Pilot Gyroplane	50	15	2.0	70
RPH	Recreational Pilot Helicopter	50	15	2.0	70

Test Codes, highlighted in blue, indicate the corresponding test has Airman Certification Standards (ACS) Codes printed on the Airman Knowledge Test Report (AKTR).

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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FAA Airman Knowledge Testing Matrix

Reference: https://www.faa.gov/training_testing/testing

An airman applicant may present **one or more** of the following acceptable forms of authorization for all tests listed above (except PCH, PCP, PEP, and PFB):

- Certificate of graduation issued by an FAA certificated pilot school. ([14 CFR § 61.71\(a\)](#))
- Written statement or logbook endorsement from an authorized ground or flight instructor certifying that the applicant completed an applicable ground training or home study course and is prepared for the knowledge test. ([14 CFR § 61.35](#), [61.96\(b\)\(3\)](#) or [61.103\(d\)\(2\)](#))

Authorization for PCH, PCP, PEP, and PFB tests only:

- Requires NO instructor endorsement or other form of written authorization.

Acceptable forms of retest authorization for ALL tests listed above:

- Passing AKTR
- Expired AKTR, or other acceptable form of first take authorization, if an authorization is required.
- Failed AKTR
 - *NOTE: An applicant retesting AFTER FAILURE is required to submit the applicable AKTR (whether valid or expired) indicating failure. The applicant must also present an endorsement from an authorized instructor who gave the applicant additional training and who has determined the applicant proficient to pass the test. This endorsement may be in the form of a signed written statement, a signed logbook notation, or by completing the **Authorized Instructor's Statement** portion of the failed AKTR. ([14 CFR § 61.49\(a\)\(2\)](#))*
 - **PROCTOR ACTION:** Scan the AKTR, presented as authorization, verify the authorization is successfully scanned and electronically stored, and then destroy the failed AKTR.

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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Sample FAA Airman Knowledge Test Report

U.S. DEPARTMENT OF TRANSPORTATION Federal Aviation Administration Airman Knowledge Test Report

NAME: Jones, David John

APPLICANT ID: 123456789

EXAM ID: 30032620164612312

EXAM: Private Pilot Glider (PGL)

EXAM DATE: 03/26/16

EXAM SITE: XXXX12301

SCORE: 92%

GRADE: Pass

TAKE: 1

Learning statement codes listed below represent incorrectly answered questions. Learning statement codes and their associated statements can be found at http://www.faa.gov/training_testing/testing/media/LearningStatementReferenceGuide.pdf.

Reference material associated with the learning statement codes can be found in the appropriate knowledge test guide at http://www.faa.gov/training_testing/testing/test_guides.

A single code may represent more than one incorrect response.

PL1256, PL1257

EXPIRATION DATE: 03/31/18



DO NOT LOSE THIS REPORT

AUTHORIZED INSTRUCTOR'S STATEMENT: (if applicable)

On _____ (date) I gave the above named applicant _____ hours of additional instruction, covering each subject area shown to be deficient, and consider the applicant competent to pass the test.

Name _____ Initial _____ Cert. No. _____ Type _____
(print clearly)

Signature _____

FRAUDULENT ALTERATION OF THIS FORM BY ANY PERSON IS A BASIS FOR SUSPENSION OR REVOCATION OF ANY CERTIFICATES OR RATINGS HELD BY THAT PERSON.

ISSUED BY: Administrator

FEDERAL AVIATION ADMINISTRATION

THIS INFORMATION IS PROTECTED BY THE PRIVACY ACT. FOR OFFICIAL USE ONLY.

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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When an applicant for an airman certificate or rating takes the applicable airman knowledge test required for that certificate/rating, the applicant will receive an Airman Knowledge Test Report (AKTR)

Sample FAA Airman Knowledge Test Report

U.S. DEPARTMENT OF TRANSPORTATION Federal Aviation Administration Airman Knowledge Test Report

NAME: Jones, David John

APPLICANT ID: 123456789

EXAM ID: 30032620164612312

EXAM: Private Pilot Glider (PGL)

EXAM DATE: 03/26/16

EXAM SITE: XXXX12301

SCORE: 92%

GRADE: Pass

TAKE: 1

Learning statement codes listed below represent incorrectly answered questions. Learning statement codes and their associated statements can be found at http://www.faa.gov/training_testing/testing/media/LearningStatementReferenceGuide.pdf.

Reference material associated with the learning statement codes can be found in the appropriate knowledge test guide at http://www.faa.gov/training_testing/testing/test_guides.

A single code may represent more than one incorrect response.

PLT256, PLT257

EXPIRATION DATE: 03/31/18



DO NOT LOSE THIS REPORT

AUTHORIZED INSTRUCTOR'S STATEMENT: (if applicable)

On _____ (date) I gave the above named applicant _____ hours of additional instruction, covering each subject area shown to be deficient, and consider the applicant competent to pass the test.

Name _____ Initial _____ Cert. No. _____ Type _____
(print clearly)

Signature: _____

FRAUDULENT ALTERATION OF THIS FORM BY ANY PERSON IS A BASIS FOR SUSPENSION OR REVOCATION OF ANY CERTIFICATES OR RATINGS HELD BY THAT PERSON.

ISSUED BY: Administrator

FEDERAL AVIATION ADMINISTRATION

THIS INFORMATION IS PROTECTED BY THE PRIVACY ACT. FOR OFFICIAL USE ONLY.

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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The Airman Knowledge Test Report will list the learning statement codes for questions that are answered incorrectly.

Learning Statements Reference Guide

Reference: https://www.faa.gov/training_testing/testing

LEARNING STATEMENT CODES and LEARNING STATEMENTS for Pilot, Instructor, Flight Engineer, Dispatcher, and Navigator Exams

PLT253	Recall fuel system - components / operating principles / characteristics / leaks
PLT254	Recall fuel tank - components / operating principles / characteristics
PLT255	Recall fueling procedures - safety / grounding / calculating volume
PLT256	Recall glider performance - effect of loading
PLT257	Recall glider performance - speed / distance / ballast / lift / drag
PLT258	Recall ground reference maneuvers - ground track diagram
PLT259	Recall ground resonance - conditions to occur
PLT260	Recall gyroplane - aerodynamics / rotor systems
PLT261	Recall hail - characteristics / hazards
PLT262	Recall helicopter hazards - dynamic rollover / Low G / LTE
PLT263	Recall hazardous weather - fog / icing / turbulence / visibility restriction
PLT264	Recall helicopter approach - settling with power
PLT265	Recall helicopter takeoff / landing - ground resonance action required
PLT266	Recall high lift devices - characteristics / functions
PLT267	Recall hot air balloon - weigh-off procedure
PLT268	Recall hovering - aircraft performance / tendencies
PLT269	Recall human behavior - defense mechanism

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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The student should match the code with the learning statement code contained in the Learning Statements Reference Guide for Airman Knowledge Testing to review areas of deficiency. An applicant's instructor is required to provide instruction on each of the areas of deficiency listed on the FAA Airman Knowledge Test Report

Example

GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL

GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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Example

DATE

GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL
12/26/25				

GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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Example

DESCRIPTION OF THE LESSON

[illegible]

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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Example

TOTAL LESSON TIME

[illegible]

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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Example

AUTHORIZED INSTRUCTOR'S SIGNATURE
 CERTIFICATE NUMBER
 CERTIFICATE EXPIRATION DATE OR
 RECENT EXPERIENCE END DATE

[illegible]

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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Endorsement

Reference: AC 61-65 (current version)

Review of deficiencies identified on airman knowledge test: 14 CFR 61.39(a)(6)(iii)

I certify that [First name, MI, Last name] has demonstrated satisfactory knowledge of the subject areas in which he/she was deficient on the PRIVATE PILOT GLIDER airman knowledge test

/s/ J. J. Jones 987654321CFI RE 12-31-2026

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
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To be eligible for a practical test for a certificate or rating issued under this part, an applicant must:

- Have an endorsement, if required by this part, in the applicant's logbook or training record that has been signed by an authorized instructor who certifies that the applicant—
- Has demonstrated satisfactory knowledge of the subject areas in which the applicant was deficient on the airman knowledge test;

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
				14 CFR 61.109 Aeronautical Experience (Solo Flights)
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
			14 CFR 61.109 Aeronautical Experience (Solo Flights)	
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

Eligibility requirements for student pilots

- At least 14 years of age when seeking a glider rating
- Able to meet the FAA Aviation English Language Standard (AELS)
Reference: AC 61-28 (current version)
- Able to pass the TSA vetting which occurs after AFB-720 receives the application

14 CFR 61.83, 14 CFR 61.85
Application for a Student Pilot Certificate

14 CFR 61.3, 14 CFR 61.103
Student Pilot Certificate

Application for a Student Pilot Certificate

- Online FAA Form 8710-1 Airman Certificate and/or Rating Application using IACRA (recommended)
- IACRA allows an individual to proceed with an application up to 90 calendar days prior to their 14th birthday

14 CFR 61.83, 14 CFR 61.85
Application for a Student Pilot Certificate

14 CFR 61.3, 14 CFR 61.103
Student Pilot Certificate

Sample Student Pilot Certificate

1. UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION		2. CERTIFICATE NO. PENDING
3. TEMPORARY AIRMAN CERTIFICATE		
THIS CERTIFIES THAT [REDACTED]		
DATE OF BIRTH	HEIGHT	WEIGHT
[REDACTED]	[REDACTED]	[REDACTED]
HAIR	EYES	SEX
[REDACTED]	[REDACTED]	[REDACTED]
NATIONALITY [REDACTED] USA		
4. This test found to be properly qualified and is hereby authorized in accordance with the conditions of issuance on the reverse of this certificate to exercise the privileges of STUDENT PILOT		
5. BASIS AND LIMITATIONS XII. [LIMITATIONS] CARRYING PASSENGERS IS PROHIBITED		
XIII. THIS IS AN ORIGINAL ISSUANCE OR A REISSUANCE OF THIS ORIGIN OF CERTIFICATE		
DATE OF SUBMITTED AIRMAN CERTIFICATE		DATE OF EXPIRATION
BY DIRECTION OF THE ADMINISTRATOR		EXAMINER'S DESIGNATION NO. OR
6. DATE OF ISSUANCE	7. SIGNATURE OF EXAMINER OR INSPECTOR	DATE OF SIGNATURE EXPIRES
[REDACTED]	[REDACTED]	[REDACTED]
FAA Form 8060-4 (3-78) USE PREVIOUS EDITION Application Number: [REDACTED] (ACRA Equivalent)		
XIV. CONDITIONS OF ISSUANCE This is an interim certificate issued subject to the approval of the Federal Aviation Administration pending the issuance of a certificate of greater duration. It becomes void - 1. Upon the receipt of a certificate of greater duration to replace it; 2. Upon a finding by the FAA that an error has been made in its issuance; 3. Upon a finding by the FAA that it was issued illegally or as the result of fraud or misrepresentation; 4. Upon the refusal or failure by the holder to accomplish a flight check by a Flight Standards Inspector if so requested; and 5. In any case, at the expiration of 120 days from date of issuance.		

14 CFR 61.83, 14 CFR 61.85
Application for a Student Pilot Certificate

14 CFR 61.3, 14 CFR 61.103
Student Pilot Certificate

A Student Pilot Temporary Airman Certificate becomes void at the expiration of 120 days from the date of issuance. Please ask your student to sign the temporary airman certificate. A student pilot exercising his or her privileges must have the required and valid flight instructor endorsements in the student pilot's logbook.

Sample Student Pilot Certificate

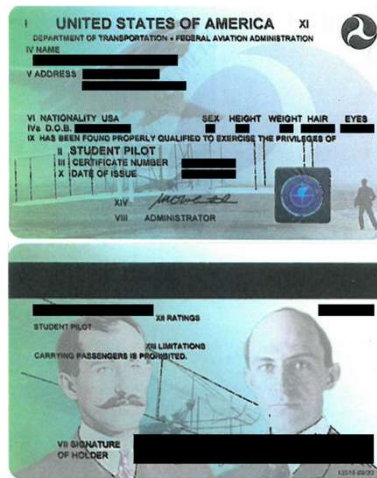
UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION		B. CERTIFICATE NO. PENDING	
A. TEMPORARY AIRMAN CERTIFICATE			
THIS CERTIFIES THAT			
[REDACTED]			
DATE OF BIRTH	HEIGHT	WEIGHT	HAIR EYES SEX NATIONALITY
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED] USA
H. Has been found to be properly qualified and is hereby subordinated in accordance with the conditions of issuance on the reverse of this certificate to exercise the privileges of STUDENT PILOT			
I. BASIS AND LIMITATIONS			
K. : [LIMITATIONS] CARRYING PASSENGERS IS PROHIBITED			
L. [REDACTED]			
THIS IS ☒ AN ORIGINAL ISSUANCE ☐ A REISSUANCE OF THIS ORIGIN OF CERTIFICATE		DATE OF SUBPENDING AIRMAN CERTIFICATE	
BY DIRECTION OF THE ADMINISTRATOR			
J. DATE OF ISSUANCE	K. SIGNATURE OF EXAMINER OR INSPECTOR	EXAMINER'S DESIGNATION NO. OR INSPECTOR'S DES. NO.	
[REDACTED]	[REDACTED]	[REDACTED]	
FAA Form 8060-4 (3-78) USE PREVIOUS EDITION		Application Number: [REDACTED]	
XIV. CONDITIONS OF ISSUANCE This is an interim certificate issued subject to the approval of the Federal Aviation Administration pending the issuance of a certificate of greater duration. It becomes void - 1. Upon the receipt of a certificate of greater duration to replace it; 2. Upon a finding by the FAA that an error has been made in its issuance; 3. Upon a finding by the FAA that it was issued illegally or as the result of fraud or misrepresentation; 4. Upon the refusal or failure by the holder to accomplish a flight check by a Flight Standards Inspector if so requested; and 5. In any case, at the expiration of 120 days from date of issuance.			

14 CFR 61.83, 14 CFR 61.85
Application for a Student Pilot Certificate

14 CFR 61.3(a), 14 CFR 61.103(j)
Student Pilot Certificate

Please review the conditions of issuance of a temporary airman certificate together with your student pilot.

Sample Student Pilot Certificate



14 CFR 61.83, 14 CFR 61.85
Application for a Student Pilot Certificate

14 CFR 61.3, 14 CFR 61.103
Student Pilot Certificate

A plastic Student Pilot Certificate has no expiration date. A student pilot exercising its privileges must have the required and valid flight instructor endorsements in the student pilot's logbook.

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
			14 CFR 61.109 Aeronautical Experience (Solo Flights)	
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

Example Training Footprint

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14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
			14 CFR 61.109 Aeronautical Experience (Solo Flights)	
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

14 CFR 61.87 Solo requirements for student pilots

(a) **General.** A student pilot may not operate an aircraft in solo flight unless that student has met the requirements of this section. The term "solo flight" as used in this subpart means that flight time during which a student pilot is the sole occupant of the aircraft or that flight time during which the student performs the duties of a pilot in command of a gas balloon or an airship requiring more than one pilot flight crewmember.

(b) **Aeronautical knowledge.** A student pilot must demonstrate satisfactory aeronautical knowledge on a knowledge test that meets the requirements of this paragraph:

(1) The test must address the student pilot's knowledge of—

- (i) Applicable sections of parts 61 and 91 of this chapter;
- (ii) Airspace rules and procedures for the airport where the solo flight will be performed; and
- (iii) Flight characteristics and operational limitations for the make and model of aircraft to be flown.

(2) The student's authorized instructor must—

- (i) Administer the test; and
- (ii) At the conclusion of the test, review all incorrect answers with the student before authorizing that student to conduct a solo flight.

(c) **Pre-solo flight training.** Prior to conducting a solo flight, a student pilot must have:

- (1) Received and logged flight training for the maneuvers and procedures of this section that are appropriate to the make and model of aircraft to be flown; and
- (2) Demonstrated satisfactory proficiency and safety, as judged by an authorized instructor, on the maneuvers and procedures required by this section in the make and model of aircraft or similar make and model of aircraft to be flown.

14 CFR 61.87
Solo requirements for student pilots

Endorsement

14 CFR 61.87 Solo requirements for student pilots

(a) **General.** A student pilot may not operate an aircraft in solo flight unless that student has met the requirements of this section. The term "solo flight" as used in this subpart means that flight time during which a student pilot is the sole occupant of the aircraft or that flight time during which the student performs the duties of a pilot in command of a gas balloon or an airship requiring more than one pilot flight crewmember.

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- (i) Applicable sections of parts 61 and 91 of this chapter;
- (ii) Airspace rules and procedures for the airport where the solo flight will be performed; and
- (iii) Flight characteristics and operational limitations for the make and model of aircraft to be flown.

(2) The student's authorized instructor must—

- (i) Administer the test; and
- (ii) At the conclusion of the test, review all incorrect answers with the student before authorizing that student to conduct a solo flight.

(c) **Pre-solo flight training.** Prior to conducting a solo flight, a student pilot must have:

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14 CFR 61.87
Solo requirements for student pilots

Endorsement

14 CFR 61.87 Solo requirements for student pilots

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- (i) Applicable sections of parts 61 and 91 of this chapter;
- (ii) Airspace rules and procedures for the airport where the solo flight will be performed; and
- (iii) Flight characteristics and operational limitations for the make and model of aircraft to be flown.

(2) The student's authorized instructor must—

- (i) Administer the test; and
- (ii) At the conclusion of the test, review all incorrect answers with the student before authorizing that student to conduct a solo flight.

(c) **Pre-solo flight training.** Prior to conducting a solo flight, a student pilot must have:

- (1) Received and logged flight training for the maneuvers and procedures of this section that are appropriate to the make and model of aircraft to be flown; and
- (2) Demonstrated satisfactory proficiency and safety, as judged by an authorized instructor, on the maneuvers and procedures required by this section in the make and model of aircraft or similar make and model of aircraft to be flown.

14 CFR 61.87
Solo requirements for student pilots

Endorsement

14 CFR 61.87 Solo requirements for student pilots

(a) **General.** A student pilot may not operate an aircraft in solo flight unless that student has met the requirements of this section. The term "solo flight" as used in this subpart means that flight time during which a student pilot is the sole occupant of the aircraft or that flight time during which the student performs the duties of a pilot in command of a gas balloon or an airship requiring more than one pilot flight crewmember.

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(1) The test must address the student pilot's knowledge of—

- (i) Applicable sections of parts 61 and 91 of this chapter;
- (ii) Airspace rules and procedures for the airport where the solo flight will be performed; and
- (iii) Flight characteristics and operational limitations for the make and model of aircraft to be flown.

(2) The student's authorized instructor must—

(i) Administer the test; and

(ii) At the conclusion of the test, review all incorrect answers with the student before authorizing that student to conduct a solo flight.

(c) **Pre-solo flight training.** Prior to conducting a solo flight, a student pilot must have:

- (1) Received and logged flight training for the maneuvers and procedures of this section that are appropriate to the make and model of aircraft to be flown; and
- (2) Demonstrated satisfactory proficiency and safety, as judged by an authorized instructor, on the maneuvers and procedures required by this section in the make and model of aircraft or similar make and model of aircraft to be flown.

14 CFR 61.87
Solo requirements for student pilots

Endorsement

Endorsement

Reference: AC 61-65 (current version)

Pre-solo aeronautical knowledge: 14 CFR 61.87(b).

I certify that [First name, MI, Last name] has satisfactorily completed the pre-solo knowledge test of 14 CFR § 61.87(b) for the [make and model (M/M)] aircraft.

/s/ J. J. Jones 987654321CFIRE 12-31-2026

14 CFR 61.87
Solo requirements for student pilots

Endorsement

14 CFR 61.87 Solo requirements for student pilots

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- (i) Applicable sections of parts 61 and 91 of this chapter;
- (ii) Airspace rules and procedures for the airport where the solo flight will be performed; and
- (iii) Flight characteristics and operational limitations for the make and model of aircraft to be flown.

(2) The student's authorized instructor must—

- (i) Administer the test; and
- (ii) At the conclusion of the test, review all incorrect answers with the student before authorizing that student to conduct a solo flight.

(c) **Pre-solo flight training.** Prior to conducting a solo flight, a student pilot must have:

- (1) Received and logged flight training for the maneuvers and procedures of this section that are appropriate to the make and model of aircraft to be flown; and
- (2) Demonstrated satisfactory proficiency and safety, as judged by an authorized instructor, on the maneuvers and procedures required by this section in the make and model of aircraft or similar make and model of aircraft to be flown.

14 CFR 61.87
Solo requirements for student pilots

Endorsement

14 CFR 61.87 Solo requirements for student pilots

(l) *Maneuvers and procedures for pre-solo flight training in a glider.* A student pilot who is receiving training for a glider rating or privileges must receive and log flight training for the following maneuvers and procedures:

- (1) Proper flight preparation procedures, including preflight planning, preparation, aircraft systems, and, if appropriate, powerplant operations;
- (2) Taxiing or surface operations, including runups, if applicable;
- (3) Launches, including normal and crosswind;
- (4) Straight and level flight, and turns in both directions, if applicable;
- (5) Airport traffic patterns, including entry procedures;
- (6) Collision avoidance, windshear avoidance, and wake turbulence avoidance;
- (7) Descents with and without turns using high and low drag configurations;
- (8) Flight at various airspeeds;
- (9) Emergency procedures and equipment malfunctions;
- (10) Ground reference maneuvers, if applicable;
- (11) Inspection of towline rigging and review of signals and release procedures, if applicable;
- (12) Aerotow, ground tow, or self-launch procedures;
- (13) Procedures for disassembly and assembly of the glider;
- (14) Stall entry, stall, and stall recovery;
- (15) Straight glides, turns, and spirals;
- (16) Landings, including normal and crosswind;
- (17) Slips to a landing;
- (18) Procedures and techniques for thermalling; and
- (19) Emergency operations, including towline break procedures.

14 CFR 61.87
Solo requirements for student pilots

Endorsement

14 CFR 61.87 Solo requirements for student pilots

(l) *Maneuvers and procedures for pre-solo flight training in a glider.* A student pilot who is receiving training for a glider rating or privileges must receive and log flight training for the following maneuvers and procedures:

- (1) Proper flight preparation procedures, including preflight planning, preparation, aircraft systems, and, if appropriate, powerplant operations;
- (2) Taxiing or surface operations, including runups, if applicable;
- (3) Launches, including normal and crosswind;
- (4) Straight and level flight, and turns in both directions, if applicable;
- (5) Airport traffic patterns, including entry procedures;
- (6) Collision avoidance, windshear avoidance, and wake turbulence avoidance;
- (7) Descents with and without turns using high and low drag configurations;
- (8) Flight at various airspeeds;
- (9) Emergency procedures and equipment malfunctions;
- (10) Ground reference maneuvers, if applicable;
- (11) Inspection of towline rigging and review of signals and release procedures, if applicable;
- (12) Aerotow, ground tow, or self-launch procedures;
- (13) Procedures for disassembly and assembly of the glider;
- (14) Stall entry, stall, and stall recovery;
- (15) Straight glides, turns, and spirals;
- (16) Landings, including normal and crosswind;
- (17) Slips to a landing;
- (18) Procedures and techniques for thermalling; and
- (19) Emergency operations, including towline break procedures.

14 CFR 61.87
Solo requirements for student pilots

Endorsement

Example

[illegible]

14 CFR 61.87

Endorsement

Example

DATE _____

[illegible]

14 CFR 61.87 Solo requirements for student pilots

Endorsement

Example

TYPE OF AIRCRAFT

[illegible]

14 CFR 61.87

Endorsement

IDENTIFICATION OF AIRCRAFT

	14 CFR 61.87 Solo requirements for student pilots	Endorsement	
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Example

LOCATION WHERE THE AIRCRAFT
DEPARTED AND ARRIVED

[illegible]

14 CFR 61.87

Solo requirements for student pilots

Endorsement

Example

TOTAL FLIGHT TIME

[illegible]

14 CFR 61.87 Solo requirements for student pilots

Endorsement

Example

TYPE OF PILOT EXPERIENCE OR TRAINING
FLIGHT TRAINING RECEIVED FROM
AN AUTHORIZED INSTRUCTOR

[illegible]

14 CFR 61.87 Solo requirements for student pilots

Endorsement

Example

CONDITIONS OF FLIGHT

[illegible]

14 CFR 61.87

Solo requirements for student pilots

Endorsement

Example

TRAINING AND AERONAUTICAL EXPERIENCE

[illegible]

14 CFR 61.87

Solo requirements for student pilots

Endorsement

Example

DESCRIPTION OF THE TRAINING GIVEN

YEAR	23	POINTS OF DEPARTURE & ARRIVAL	AIRCRAFT CATEGORY		TYPE OF PILOTING TIME				
DATE	5/6	FROM	TO	APPL. AIR- REL	APPL. AIR- REL	GLIDER	GROUND TRAINING	DUAL RECEIVED	PILOTAL COMMAND
TIME	1400	SGS2-33A	N1234	KAWO	KAWO		0.6	0.6	
14 CFR 61.87(i) Maneuvers and procedures for pre-solo flight training in a glider Procedures for assembly of the glider, Proper flight preparation procedures, including preflight planning, preparation, aircraft systems, Surface operations, Inspection of towline rigging and review of signals and release procedures, Aerotow procedures: Abort/Briefing, Signals, 14 CFR 91.309, Takeoff Procedures & Techniques, Aerotow Climb-Out, Slack Line, Aerotow release, Straight flight and turns in both directions, Flight at various airspeeds - Indicated Airspeeds, Minimum Control Airspeed, Straight glides, turns, and spirals, Descents with and without turns using high and low drag configurations, Airport traffic pattern and entry procedure, Collision avoidance, Normal Landing, Procedures for disassembly of the glider									
PRIME TOTAL									
AMOUNT FORWARDED									
TOTAL TO DATE									

CONDITIONS OF FLIGHT						AERO TOW		TOTAL DURATION OF FLIGHT		REMARKS, PROCEDURES, MANEUVERS	
DAY	1	NIGHT	CLOUDS	ACTUAL RPTG	DISPATCHED RPTG	1	1	0.6			
I certify that the statements made by me on this form are true.											
PILOT'S SIGNATURE											

14 CFR 61.87
Solo requirements for student pilots

Endorsement

Example

FY	MONTH	PURPOSE OF DEMONSTRATION & AIRSHOW						AIRCRAFT CATEGORY								TYPE OF PILOTING TIME																			
DATE	HAVE A MODEL	ARCNO#	CNCT	FROM	TO	APPROX BLS	AIRPLANE REG.	GLIDER	GROUNDFORWARDER	SOCIALRECEIVED	POLITICALCOMMAND								CONDITIONS OF FLIGHT			AERO TOW NO. (DU)			TOTAL NUMBER OF FLIGHT	REMARKS, PROCEDURES, MANEUVERS									
																			DAY	NIGHT	CLOUD COVER	WIND DIRECTION	WIND VELOCITY	BALLAST WEIGHTS	KNOTS	0	1	2	3						
5/6	SGS-33A	N1234		KAWO	KAO			0.6		0.6									06F								0.6								
14 CFR 61.87(f) Maneuvers and procedures for pre-solo flight training in a glider <i>Procedures for assembly of the glider, Proper flight preparation procedures, including preflight planning, preparation, aircraft systems, Surface operations, Inspection of towing equipment and review of signals and release procedures, Aerotow procedures-- About Bridging, Signals, 14 CFR 91.309, Takeoff Procedures & Techniques, Aerotow Climb-Out, Slack Line, Aerotow release, Straight flight and turns in both directions, Flight at various airspeeds -- Indicated Airspeeds, Minimum Control Airspeed, Straight glides, turns, and spirals, Descents with and without turns using light and low drag configurations, Abort traffic pattern and entry procedure, Collision avoidance, Normal Landing, Procedures for disassembly of the glider</i>																																			
																								7d / J. Jones 987654321 CFI RE 12-31-2026											
																								I certify that the statements made by me on this form are true.											
																								PILOT'S SIGNATURE											
PAUSE TOTAL																																			
AMOUNT FORWARDED																																			
TOTAL TO DATE																																			

AUTHORIZED INSTRUCTOR'S SIGNATURE
 CERTIFICATE NUMBER
 CERTIFICATE EXPIRATION DATE OR
 RECENT EXPERIENCE END DATE

14 CFR 61.87 Solo requirements for student pilots

Endorsement

14 CFR 61.87 Solo requirements for student pilots

(n) **Limitations on student pilots operating an aircraft in solo flight.** A student pilot may not operate an aircraft in solo flight unless that student pilot has received an endorsement in the student's logbook for the specific make and model aircraft to be flown by an authorized instructor who gave the training within the 90 days preceding the date of the flight.

(o) Limitations on student pilots operating an aircraft in solo flight at night. A student pilot may not operate an aircraft in solo flight at night unless that student pilot has received:

- (1) Flight training at night on night flying procedures that includes takeoffs, approaches, landings, and go-arounds at night at the airport where the solo flight will be conducted;
- (2) Navigation training at night in the vicinity of the airport where the solo flight will be conducted; and
- (3) An endorsement in the student's logbook for the specific make and model aircraft to be flown for night solo flight by an authorized instructor who gave the training within the 90-day period preceding the date of the flight.

(p) **Limitations on flight instructors authorizing solo flight.** No instructor may authorize a student pilot to perform a solo flight unless that instructor has—

- (1) Given that student pilot training in the make and model of aircraft or a similar make and model of aircraft in which the solo flight is to be flown;
- (2) Determined the student pilot is proficient in the maneuvers and procedures prescribed in this section;
- (3) Determined the student pilot is proficient in the make and model of aircraft to be flown; and
- (4) Endorsed the student pilot's logbook for the specific make and model aircraft to be flown, and that endorsement remains current for solo flight privileges, provided an authorized instructor updates the student's logbook every 90 days thereafter.

14 CFR 61.87
Solo requirements for student pilots

Endorsement

14 CFR 61.87 Solo requirements for student pilots

(n) **Limitations on student pilots operating an aircraft in solo flight.** A student pilot may not operate an aircraft in solo flight unless that student pilot has received an endorsement in the student's logbook for the specific make and model aircraft to be flown by an authorized instructor who gave the training within the 90 days preceding the date of the flight.

(o) Limitations on student pilots operating an aircraft in solo flight at night. A student pilot may not operate an aircraft in solo flight at night unless that student pilot has received:

- (1) Flight training at night on night flying procedures that includes takeoffs, approaches, landings, and go-arounds at night at the airport where the solo flight will be conducted;
- (2) Navigation training at night in the vicinity of the airport where the solo flight will be conducted; and
- (3) An endorsement in the student's logbook for the specific make and model aircraft to be flown for night solo flight by an authorized instructor who gave the training within the 90-day period preceding the date of the flight.

(p) **Limitations on flight instructors authorizing solo flight.** No instructor may authorize a student pilot to perform a solo flight unless that instructor has—

- (1) Given that student pilot training in the make and model of aircraft or a similar make and model of aircraft in which the solo flight is to be flown;
- (2) Determined the student pilot is proficient in the maneuvers and procedures prescribed in this section;
- (3) Determined the student pilot is proficient in the make and model of aircraft to be flown; and
- (4) Endorsed the student pilot's logbook for the specific make and model aircraft to be flown, and that endorsement remains current for solo flight privileges, provided an authorized instructor updates the student's logbook every 90 days thereafter.

14 CFR 61.87
Solo requirements for student pilots

Endorsement

Endorsement

Reference: AC 61-65 (current version)

Pre-solo flight training: 14 CFR 61.87(c)(1) and (2)

I certify that [First name, MI, Last name] has received and logged pre-solo flight training for the maneuvers and procedures that are appropriate to the [M/M] aircraft. I have determined he/she has demonstrated satisfactory proficiency and safety on the maneuvers and procedures required by 14 CFR § 61.87 in this or similar make and model of aircraft to be flown.

/s/ J. J. Jones 987654321CFI RE 12-31-2026

14 CFR 61.87
Solo requirements for student pilots

Endorsement

Endorsement

Reference: AC 61-65 (current version)

Solo flight (first 90-calendar-day period):
14 CFR 61.87(n)

*I certify that [First name, MI, Last name] has received the required training to qualify for solo flying.
I have determined he/she meets the applicable requirements of 14 CFR 61.87(n) and that he/she is proficient to make solo flights in [M/M].*

Limitations:

/s/ J. J. Jones 987654321CFIRE 12-31-2026

14 CFR 61.87
Solo requirements for student pilots

Endorsement

A student pilot may not operate an aircraft in solo flight unless that student pilot has received an endorsement in the student's logbook for the specific make and model aircraft to be flown by an authorized instructor who gave the training within the 90 days preceding the date of the flight.

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		Endorsement
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
		14 CFR 61.109 Aeronautical Experience (Solo Flights)		
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
			14 CFR 61.109 Aeronautical Experience (Solo Flights)	
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

14 CFR 61.31(j) Additional training required for operating a glider

(j) *Additional training required for operating a glider.*

(1) No person may act as pilot in command of a glider—

(i) Using ground-tow procedures, unless that person has satisfactorily accomplished ground and flight training on ground-tow procedures and operations, and has received an endorsement from an authorized instructor who certifies in that pilot's logbook that the pilot has been found proficient in ground-tow procedures and operations;

(ii) Using aerotow procedures, unless that person has satisfactorily accomplished ground and flight training on aerotow procedures and operations, and has received an endorsement from an authorized instructor who certifies in that pilot's logbook that the pilot has been found proficient in aerotow procedures and operations; or

(iii) Using self-launch procedures, unless that person has satisfactorily accomplished ground and flight training on self-launch procedures and operations, and has received an endorsement from an authorized instructor who certifies in that pilot's logbook that the pilot has been found proficient in self-launch procedures and operations.

(2) The holder of a glider rating issued prior to August 4, 1997, is considered to be in compliance with the training and logbook endorsement requirements of this paragraph for the specific operating privilege for which the holder is already qualified.

14 CFR 61.31
Additional training required for operating a glider

Endorsement

14 CFR 61.31(j) Additional training required for operating a glider

(j) *Additional training required for operating a glider.*

(1) No person may act as pilot in command of a glider—

(i) Using ground-tow procedures, unless that person has satisfactorily accomplished ground and flight training on ground-tow procedures and operations, and has received an endorsement from an authorized instructor who certifies in that pilot's logbook that the pilot has been found proficient in ground-tow procedures and operations;

(ii) Using aerotow procedures, unless that person has satisfactorily accomplished ground and flight training on aerotow procedures and operations, and has received an endorsement from an authorized instructor who certifies in that pilot's logbook that the pilot has been found proficient in aerotow procedures and operations; or

(iii) Using self-launch procedures, unless that person has satisfactorily accomplished ground and flight training on self-launch procedures and operations, and has received an endorsement from an authorized instructor who certifies in that pilot's logbook that the pilot has been found proficient in self-launch procedures and operations.

(2) The holder of a glider rating issued prior to August 4, 1997, is considered to be in compliance with the training and logbook endorsement requirements of this paragraph for the specific operating privilege for which the holder is already qualified.

14 CFR 61.31
Additional training required for operating a glider

Endorsement

Example

[illegible]

14 CFR 61.31
Additional training required for operating a glider

Endorsement

Example

YEAR 25	PILOT 5/6	AIRCRAFT SGS2-33A	AIRCRAFT MODEL N1234	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY		TYPE OF PILOT/INSTRUMENT			
				FROM	TO	APPL. #	APPL. #	GLIDER	GROUND TRAINER	DUAL RECEIVED	FLIGHT COMMAND
				KAWO	KAWO			0.6		0.6	
14 CFR 61.87(i) Maneuvers and procedures for pre-solo flight training in a glider Procedures for assembly of the glider, Proper flight preparation procedures, including preflight planning, preparation, aircraft systems, Surface operations, Inspection of towline rigging and review of signals and release procedures, Aerotow procedures - Abort/Briefing, Signals, 14 CFR 91.309, Takeoff Procedures & Techniques, Aerotow Climb-Out, Slack Line, Aerotow release, Straight flight and turns in both directions, Flight at various airspeeds - Indicated Airspeeds, Minimum Control Airspeed, Straight glides, turns, and spirals, Descents with and without turns using high and low drag configurations, Airport traffic pattern and entry procedure, Collision avoidance, Normal Landing, Procedures for disassembly of the glider											
/s/ J. J. Jones 987654321CFI RE 12-31-2026											
I certify that the experience made by me on this form is true.											
PILOT'S SIGNATURE											

14 CFR 61.31
Additional training required for operating a glider

Endorsement

Endorsement

Reference: AC 61-65 (current version)

Launch procedures for operating a glider: 14 CFR 61.31(j)

I certify that [First name, MI, Last name], [grade of pilot certificate], [certificate number], has received the required training in a glider [MM] for aerotow procedure. I have determined that he/she is proficient in aerotow procedure.

/s/ J. J. Jones 987654321CFIRE 12-31-2026

14 CFR 61.31
Additional training required for operating a glider

Endorsement

No person may act as pilot in command of a glider using aerotow procedures, unless that person has satisfactorily accomplished ground and flight training on aerotow procedures and operations, and has received an endorsement from an authorized instructor who certifies in that pilot's logbook that the pilot has been found proficient in aerotow procedures and operations.

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
		14 CFR 61.109 Aeronautical Experience (Solo Flights)		
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
			14 CFR 61.109 Aeronautical Experience (Solo Flights)	
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

14 CFR 61.109(f)(1)(ii) Aeronautical Experience

(f) For a glider category rating:

(1) If the applicant for a private pilot certificate with a glider category rating has not logged at least 40 hours of flight time as a pilot in a heavier-than-air aircraft, the applicant must log at least 10 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 20 flights in a glider in the areas of operations listed in § 61.107(b)(6) of this part, including at least 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test; and

(ii) 2 hours of solo flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, with not less than 10 launches and landings being performed.

(2) If the applicant has logged at least 40 hours of flight time in a heavier-than-air aircraft, the applicant must log at least 3 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 10 solo flights in a glider in the areas of operation listed in § 61.107(b)(6) of this part; and

(ii) 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test.

14 CFR 61.109
Aeronautical Experience
(Solo Flights)

14 CFR 61.109(f)(1)(ii) Aeronautical Experience

(f) For a glider category rating:

(1) If the applicant for a private pilot certificate with a glider category rating has not logged at least 40 hours of flight time as a pilot in a heavier-than-air aircraft, the applicant must log at least 10 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 20 flights in a glider in the areas of operations listed in § 61.107(b)(6) of this part, including at least 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test; and

(ii) 2 hours of solo flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, with not less than 10 launches and landings being performed.

(2) If the applicant has logged at least 40 hours of flight time in a heavier-than-air aircraft, the applicant must log at least 3 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 10 solo flights in a glider in the areas of operation listed in § 61.107(b)(6) of this part; and

(ii) 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test.

14 CFR 61.109
Aeronautical Experience
(Solo Flights)

14 CFR 61.109(f)(1)(ii) Aeronautical Experience

(f) For a glider category rating:

(1) If the applicant for a private pilot certificate with a glider category rating has not logged at least 40 hours of flight time as a pilot in a heavier-than-air aircraft, the applicant must log at least 10 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 20 flights in a glider in the areas of operations listed in § 61.107(b)(6) of this part, including at least 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test; and

(ii) 2 hours of solo flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, with not less than 10 launches and landings being performed.

(2) If the applicant has logged at least 40 hours of flight time in a heavier-than-air aircraft, the applicant must log at least 3 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 10 solo flights in a glider in the areas of operation listed in § 61.107(b)(6) of this part; and

(ii) 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test.

14 CFR 61.109
Aeronautical Experience
(Solo Flights)

Example

YEAR	23	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY		TYPE OF PILOTING TIME						
DATE	5/6	AIRCRAFT REG. NO.	5GS2-33A	FROM	KAWO	TO	KAWO	GLIDER	GROUND TRAINER	DUAL RECEIVED	PILOTAGE COMMAND	SOLO
								0,4			0,4	0,4
14 CFR 61.107(b)(6) Preflight preparation, Preflight procedures, Aerotow Procedures and Operations, Tow Hook, Tow Ring Inspection, Tow Rope Inspection, 14 CFR 91.309, Aerotow launch, Aerotow climb-out, Boxing the Wake, Aerotow Release, Performance Maneuvers - Straight Glides, Turns to Headings, Steep Turns, Slow flight and stalls - Maneuvering at Minimum Control Airspeed, Climb in straight and turning flight with and without spoilers, Gliderport operations, Landing, Postflight procedures.												
I certify that the statements made by me on this form are true.												
PILOT'S SIGNATURE												

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
			14 CFR 61.109 Aeronautical Experience (Solo Flights)	
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
			14 CFR 61.109 Aeronautical Experience (Solo Flights)	
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

14 CFR 61.107 Flight Proficiency

(a) **General.** A person who applies for a private pilot certificate must receive and log ground and flight training from an authorized instructor on the areas of operation of this section that apply to the aircraft category and class rating sought.

(b) **Areas of operation.**

- (6) For a glider category rating:
 - (i) Preflight preparation;
 - (ii) Preflight procedures;
 - (iii) Airport and gliderport operations;
 - (iv) Launches and landings;
 - (v) Performance speeds;
 - (vi) Soaring techniques;
 - (vii) Performance maneuvers;
 - (viii) Navigation;
 - (ix) Slow flight and stalls;
 - (x) Emergency operations; and
 - (xi) Postflight procedures.

14 CFR 61.107 Flight Proficiency

(a) **General.** A person who applies for a private pilot certificate must receive and log ground and flight training from an authorized instructor on the areas of operation of this section that apply to the aircraft category and class rating sought.

(b) **Areas of operation.**

(6) For a glider category rating:

- (i) Preflight preparation;
- (ii) Preflight procedures;
- (iii) Airport and gliderport operations;
- (iv) Launches and landings;
- (v) Performance speeds;
- (vi) Soaring techniques;
- (vii) Performance maneuvers;
- (viii) Navigation;
- (ix) Slow flight and stalls;
- (x) Emergency operations; and
- (xi) Postflight procedures.

Example

GROUND INSTRUCTION LOG					GROUND INSTRUCTION LOG				
DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL	DATE	LESSON PLAN	INSTRUCTOR	TIME	TOTAL
	14 CFR 61.107(b)(6) Flight Proficiency								
12/26/25	(i) Preflight preparation	/s/ J. J. Jones 887654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.	1/3/26	(x) Emergency operations	/s/ J. J. Jones 887654321CFI RE 12-31-2026	0.3 hrs.	0.3 hrs.
12/26/26	(ii) Preflight procedures	/s/ J. J. Jones 887654321CFI RE 12-31-2026	0.3 hrs.	0.3 hrs.	1/3/26	(xi) Postflight procedures	/s/ J. J. Jones 887654321CFI RE 12-31-2026	0.3 hrs.	0.3 hrs.
12/27/25	(iii) Airport and gliderport operations	/s/ J. J. Jones 887654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.					
12/28/25	(iv) Launches and landings	/s/ J. J. Jones 887654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.					
12/29/25	(v) Performance speeds	/s/ J. J. Jones 887654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.					
12/30/25	(vi) Soaring techniques	/s/ J. J. Jones 887654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.					
1/2/26	(vii) Performance maneuvers	/s/ J. J. Jones 887654321CFI RE 12-31-2026	0.3 hrs.	0.3 hrs.					
1/3/26	(viii) Navigation	/s/ J. J. Jones 887654321CFI RE 12-31-2026	1.2 hrs.	1.2 hrs.					
1/3/26	(ix) Slow flight and stalls	/s/ J. J. Jones 887654321CFI RE 12-31-2026	0.3 hrs.	0.3 hrs.					

14 CFR 61.107
Flight Proficiency

Endorsement

Example

YEAR	23	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY		TYPE OF PILOTING TIME					
DATE	5/6	AIRCRAFT REG. NO.	5/6	FROM	TO	APPL. REG. NO.	APPL. REG. NO.	GLIDER	GROUND TRAINER	DUAL RECEIVED	PILOTAGE COMMAND
		5/6	SGS2-33A	N1234	KAWO	KAWO		0.5		0.5	
14 CFR 61.107(b)(6) Preflight preparation, Preflight procedures, Aerotow Procedures and Operations, Tow Hook, Tow Ring Inspection, Tow Rope Inspection, 14 CFR 91.309, Aerotow launch, Aerotow climb-out, Boxing the Wake, Aerotow Release, Performance Maneuvers - Straight Glides, Turns to Headings, Steep Turns, Slow flight and stalls - Maneuvering at Minimum Control Airspeed, Climb in straight and turning flight with and without spoilers, Gliderport operations, Landing, Postflight procedures.											
/s/ J. J. Jones 987654321CFIRE 12-31-2026											
I certify that the statements made by me on this form are true.											
PILOT'S SIGNATURE											

14 CFR 61.107
Flight Proficiency

Endorsement

Endorsement

Reference: AC 61-65 (current version)

Flight proficiency/practical test: 14 CFR 61.103(f), 61.107(b), and 61.109.

I certify that [First name, MI, Last name] has received the required training in accordance with 14 CFR 61.107(b)(6) and 61.109(f)(1). I have determined that he/she is prepared for the PRIVATE PILOT GLIDER practical test.

/s/ J. J. Jones 987654321CFIRE 12-31-2026

14 CFR 61.107
Flight Proficiency

Endorsement

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
			14 CFR 61.109 Aeronautical Experience (Solo Flights)	
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate		
14 CFR 61.87 Solo requirements for student pilots		Endorsement		
14 CFR 61.31 Additional training required for operating a glider		Endorsement		
			14 CFR 61.109 Aeronautical Experience (Solo Flights)	
14 CFR 61.107 Flight Proficiency				Endorsement
14 CFR 61.109 Aeronautical Experience				Endorsement

14 CFR 61.109(f)(1)(ii) Aeronautical Experience

(f) For a glider category rating:

(1) If the applicant for a private pilot certificate with a glider category rating has not logged at least 40 hours of flight time as a pilot in a heavier-than-air aircraft, the applicant must log at least 10 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 20 flights in a glider in the areas of operations listed in § 61.107(b)(6) of this part, including at least 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test; and

(ii) 2 hours of solo flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, with not less than 10 launches and landings being performed.

(2) If the applicant has logged at least 40 hours of flight time in a heavier-than-air aircraft, the applicant must log at least 3 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 10 solo flights in a glider in the areas of operation listed in § 61.107(b)(6) of this part; and

(ii) 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test.

14 CFR 61.109(f)(1)(ii) Aeronautical Experience

(f) For a glider category rating:

(1) If the applicant for a private pilot certificate with a glider category rating has not logged at least 40 hours of flight time as a pilot in a heavier-than-air aircraft, the applicant must log at least 10 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 20 flights in a glider in the areas of operations listed in § 61.107(b)(6) of this part, including at least 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test; and

(ii) 2 hours of solo flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, with not less than 10 launches and landings being performed.

(2) If the applicant has logged at least 40 hours of flight time in a heavier-than-air aircraft, the applicant must log at least 3 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 10 solo flights in a glider in the areas of operation listed in § 61.107(b)(6) of this part; and

(ii) 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test.

14 CFR 61.109(f)(1)(ii) Aeronautical Experience

(f) For a glider category rating:

(1) If the applicant for a private pilot certificate with a glider category rating has not logged at least 40 hours of flight time as a pilot in a heavier-than-air aircraft, the applicant must log at least 10 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 20 flights in a glider in the areas of operations listed in § 61.107(b)(6) of this part, including at least 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test; and

(ii) 2 hours of solo flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, with not less than 10 launches and landings being performed.

(2) If the applicant has logged at least 40 hours of flight time in a heavier-than-air aircraft, the applicant must log at least 3 hours of flight time in a glider in the areas of operation listed in § 61.107(b)(6) of this part, and that flight time must include at least—

(i) 10 solo flights in a glider in the areas of operation listed in § 61.107(b)(6) of this part; and

(ii) 3 training flights with an authorized instructor in a glider in preparation for the practical test that must have been performed within the preceding 2 calendar months from the month of the test.

Endorsement

Reference: AC 61-65 (current version)

Prerequisites for practical test: 14 CFR 61.39(a)(6)(i) and (ii)

I certify that [First name, MI, Last name] has received and logged training time within 2 calendar months preceding the month of application in preparation for the practical test and he/she is prepared for the PRIVATE PILOT GLIDER practical test.

/s/ J. J. Jones 987654321CFI RE 12-31-2026

14 CFR 61.109
Aeronautical Experience

Endorsement

Endorsement, if required by this part, in the applicant's logbook or training record that has been signed by an authorized instructor who certifies that the applicant—

- (i) Has received and logged training time within 2 calendar months preceding the month of application in preparation for the practical test;
- (ii) Is prepared for the required practical test;

Example Training Footprint

14 CFR 61.105 Aeronautical Knowledge	Endorsement	14 CFR 61.39, 14 CFR 61.103 Airman Knowledge Test	14 CFR 61.39 Review of deficiencies identified on airman knowledge test	Endorsement	
14 CFR 61.83, 14 CFR 61.85 Application for a Student Pilot Certificate		14 CFR 61.3, 14 CFR 61.103 Student Pilot Certificate			
14 CFR 61.87 Solo requirements for student pilots					Endorsement
14 CFR 61.31 Additional training required for operating a glider					Endorsement
			14 CFR 61.109 Aeronautical Experience (Solo Flights)		
14 CFR 61.107 Flight Proficiency				Endorsement	
14 CFR 61.109 Aeronautical Experience				Endorsement	

This completes the discussion of an example training footprint.
The applicant now submits an online FAA Form 8710-1 Airman Certificate and/or Rating Application

FAA Form 8710-1

FAA Form 8710-1, AIRMAN CERTIFICATE AND/OR RATING APPLICATION, is used by the FAA to issue certificates and/or ratings to pilots, flight attendants, and other aviation personnel. The form is divided into several sections, including:

- Section 1: AIRMAN CERTIFICATE AND/OR RATING APPLICATION** - This section contains the applicant's personal information, including name, address, and contact details. It also includes a section for the applicant's signature and the signature of the FAA representative.
- Section 2: AIRMAN CERTIFICATE AND/OR RATING APPLICATION** - This section contains the applicant's flight history, including a table for recording flight hours and ratings. It also includes a section for the applicant's signature and the signature of the FAA representative.
- Section 3: AIRMAN CERTIFICATE AND/OR RATING APPLICATION** - This section contains the applicant's flight history, including a table for recording flight hours and ratings. It also includes a section for the applicant's signature and the signature of the FAA representative.
- Section 4: AIRMAN CERTIFICATE AND/OR RATING APPLICATION** - This section contains the applicant's flight history, including a table for recording flight hours and ratings. It also includes a section for the applicant's signature and the signature of the FAA representative.

The form is used by the FAA to issue certificates and/or ratings to pilots, flight attendants, and other aviation personnel. The form is divided into several sections, including:

- Section 1: AIRMAN CERTIFICATE AND/OR RATING APPLICATION** - This section contains the applicant's personal information, including name, address, and contact details. It also includes a section for the applicant's signature and the signature of the FAA representative.
- Section 2: AIRMAN CERTIFICATE AND/OR RATING APPLICATION** - This section contains the applicant's flight history, including a table for recording flight hours and ratings. It also includes a section for the applicant's signature and the signature of the FAA representative.
- Section 3: AIRMAN CERTIFICATE AND/OR RATING APPLICATION** - This section contains the applicant's flight history, including a table for recording flight hours and ratings. It also includes a section for the applicant's signature and the signature of the FAA representative.
- Section 4: AIRMAN CERTIFICATE AND/OR RATING APPLICATION** - This section contains the applicant's flight history, including a table for recording flight hours and ratings. It also includes a section for the applicant's signature and the signature of the FAA representative.

Reference: <https://www.faa.gov/forms/>, <https://iacra.faa.gov/>

Encourage an applicant to complete an online FAA Form 8710-1, Airman Certificate and/or Rating Application, utilizing the Integrated Airman Certification and Rating Application system.

FAA Form 8710-1 Application

- **Information on the application must be accurate and complete**
- **Flight time in Section III of the application must meet the minimum flight experience required for the certificate and rating sought (14 CFR 61.109)**
- **Recommending Instructor (RI) must sign the application no more than 2 calendar months preceding the month the application was submitted**

Reference: <https://www.faa.gov/forms/>, <https://iacra.faa.gov/>

FAA Form 8710-1[illegible]

Reference: <https://www.faa.gov/forms/>, <https://iacra.faa.gov/>

FAA Form 8710-1

Instructor Action			
☐ Accepted Student Pilot Application - I have personally reviewed the applicant's information and verified the person meets the eligibility requirements and verified applicant's identification		☐ Rejected Student Pilot Application	
☐ Flight Review	☐ Instrument Proficiency Check	☒ Recommendation - I have personally instructed the applicant and consider this person ready to take the test.	
Date	Authorized Flight Instructor's Signature (Print Name and Sign)	Flight Instructor Certificate Number	Recent Experience End Date
Air Agency's Recommendation			
The applicant has successfully completed our _____ course, and is recommended for certificate or rating without further practical test.			
Date	Agency Name and Number	Official Signature	

Reference: <https://www.faa.gov/forms/>, <https://iacra.faa.gov/>

Under instructor action, a Recommending Instructor selects RECOMMENDATION stating that he or she has personally instructed the applicant and considers the person ready to take the test.

Ready, not only means that the applicant has demonstrated aeronautical knowledge and flight proficiency, but also that the applicant is eligible for the practical test and meets the aeronautical knowledge, flight proficiency, and aeronautical experience requirements. Ready also means, that the required ground and flight training it is documented in a reliable record and that the applicant has the required endorsements.

Summary

- **Flight instructor's responsibilities**
- **Refer to 14 CFR Part 61**
- **Refer to AC 61-65 (current version)**

Additional Resources

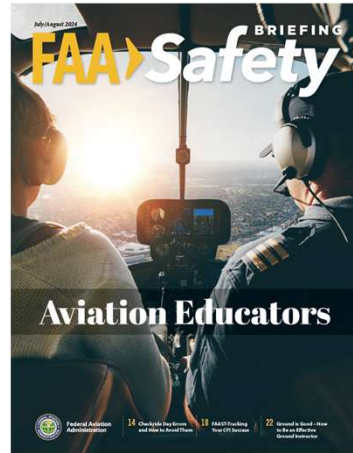
- **FAA-H-8083-13 Glider Flying Handbook (current version)**
- **FAA-S-8081-22 Private Pilot Practical Test Standards for Glider Category (current version)**
- **IACRA User Guide (current version)**
- **FAA Airman Testing**
https://www.faa.gov/training_testing/testing

Additional Resources

- **FAASafety Team Representatives**
<https://www.faa.gov/safety>
- **Designated Pilot Examiners (DPE)**
<https://designee.faa.gov/>
- **Flight Standards District Office (FSDO)**
<https://www.faa.gov/flightstandards>

Recommendations

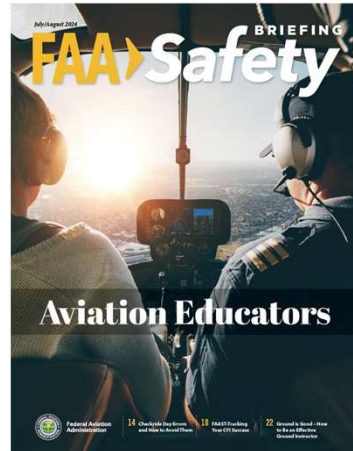
- Make a checklist of items required for the practical test
- Plan time with the student pilot prior to the practical test to verify their eligibility and review aircraft maintenance logs
- Review the eligibility requirements in 14 CFR Part 61 for the certificate and/or rating sought



Reference: FAA Safety Briefing Magazine (July/August 2024)

Recommendations

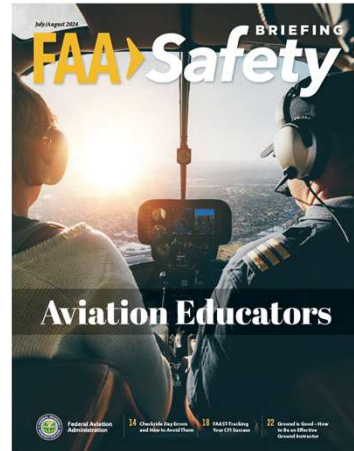
- **Verify the aeronautical experience is documented in the student's logbook**
- **Review the FAA Form 8710-1 application**
- **Use the recommended endorsements**
Refer to AC 61-65 (current version)
- **Have an experienced instructor review your student pilot's eligibility**



Reference: FAA Safety Briefing Magazine (July/August 2024)

Recommendations

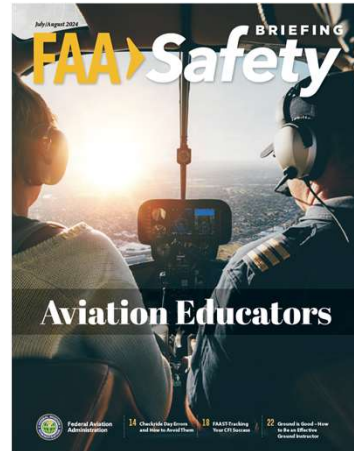
- Coordinate with the DPE
- Be onsite for the beginning of the practical test
- If given consent by your student, join your student and the DPE for the debrief



Reference: FAA Safety Briefing Magazine (July/August 2024)

Recommendations

- Coordinate with the DPE
- Be onsite for the beginning of the practical test
- If given consent by your student, join your student and the DPE for the debrief
- Don't be afraid to ask questions



Reference: FAA Safety Briefing Magazine (July/August 2024)

Contact Information

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Nationwide Testing

