

## MAXIMUM STUDENT SOLO ENVIRONMENTAL CONDITIONS

**BACKGROUND INFORMATION:**

CAE is committed to achieving the highest level of safety by meeting or surpassing regulatory requirements, by auditing the safety implications of our activities, by identifying areas for improvement through incident reporting, investigation and risk assessment, and by encouraging the open and honest reporting of safety issues.

**POLICY:**

CAE Global Academy member schools shall immediately incorporate and enforce the maximum wind and cloud clearance limitations set forth for student solo flights.

The students' assigned instructor shall provide the student with an endorsement in the students' training record specifying the maximum headwind, crosswind and tailwind values in which that student may conduct solo flight training, determined by his/her flight instructor, and based on the students' demonstrated ability and proficiency by that student to their instructor in flight. As the students' proficiency varies throughout the course curriculum, new operating limitations may be placed on the endorsement in the students' training record, to supersede the previous limitations. **In no case should the instructor endorsement for solo flight exceed the limitations set forth by the policies accepted by the FTO and prescribed herein. However, the assigned instructor may further restrict these values.**

Maximum Environmental Conditions for Student Solo Flight					
Flight Activity	Visibility	Clouds <sup>(4)(5)</sup>	Wind <sup>(1)(2)</sup>	Crosswind Component <sup>(1)(2)(3)</sup>	Tailwind <sup>(1)(2)</sup>
VFR Single-Engine Local	5000m (3SM)	1500 ft.	25	15	5
VFR Single-Engine Cross-Country	5000m (3SM)	2000 ft.	25	15	5

(1) Wind values are expressed in knots, and indicates the maximum allowable wind component.

(2) The Wind, Crosswind, and Tailwind values shall be referenced from the active runway - the steady wind component + gust factor, reported or observed.

(3) The crosswind component during which a student-pilot is allowed to operate must be based upon the students' demonstrated ability and proficiency by that student to their instructor in-flight, and the operating limitations must then be specified with an endorsement in the students' training record (example provided below). As the students' proficiency varies throughout the course curriculum, new operating limitations may be placed on the endorsement in the students' training record, to supersede the previous limitations.

(4) Cloud height indicates no observed or reported Overcast (OVC) or Broken (BKN) cloud layers below the designated value.

(5) Cloud height references are in Above Ground Level (AGL).

If a change to the students' assigned instructor occurs, the students' newly assigned instructor must issue a new endorsement before that student is to resume solo flight operations.

If solo flight operations are being conducted at an airport other than which the Global Academy ATO is located, the student must receive training applicable to the airport operations in which the solo flight will be conducted and the students' assigned instructor must approve the solo

flight at the prescribed airport based on the reported conditions at the time of the solo flight, and the endorsement in the students training record must reflect the applicable changes and conditions.

The chief flight instructor or designee shall make visible the last reported or observed weather conditions existing at the airport in which flight training is being conducted. The chief flight instructor or designee shall also ensure that the student's qualifications meet or exceed the prevailing weather conditions at the time of the scheduled flight. Forecast changes in environmental conditions prior to the scheduled return of solo flights must also be considered. If a student's limitations are not sufficient for the prevailing conditions, the flight shall be weathered, and the appropriate personnel notified.

The publically displayed weather information should, at a minimum, consist of:

- 1) the current wind conditions, including steady wind + gust factor, crosswind and tailwind components referenced to the active runway;
- 2) the current visibility, and;
- 3) the lowest observed or reported cloud layer.

The Chief Flight Instructor or designee has the ultimate responsibility and final authority as to the approval and/or denial in the dispatching of any flight.

Each endorsement must be legible, written in ink, and include the date of issuance (the date of issuance on the solo endorsement must correspond with the date of the preceding dual flight), instructor name (Print and Signature), certificated flight instructor (CFI) certificate number, and certificate expiration date, if applicable. The actual wind limitation values shall also be written as part of the endorsement.

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### **STUDENT PILOT ENDORSEMENT:**

*Date of Issuance*

*I certify that (First Name, MI, Last Name) has received and met all applicable training requirements and is proficient to make daytime solo flights in (aircraft make and model), subject to the following conditions:*

*[The following conditions and limitations **must** be addressed with every endorsement:*

- *Applicable airports;*
- *Minimum Visibility;*
- *Minimum Cloud Ceiling;*
- *Maximum Wind, Crosswind, and Tailwind Components.*
- *List any additional student specific conditions or limitations.]*

*Instructor Name [Print] / Instructor Name [Signature] / 123456789CFI / Exp. 12-31-2010*

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**\*\*NOTE:** None of the limitations prescribed by the students' assigned flight instructor in the student-pilot solo endorsement may exceed the limitations set forth by CAE Global Academy policy.\*\*

**EXCEPTIONS AND REVIEW:**

This policy is not to supersede the regulations and policies associated with the course curriculum in which the student is currently enrolled, or regulations governing the Flight Training Organization (FTO) - the individual FTO shall select which environmental conditions requirement by which they will operate.

If regulations governing the FTO differ, notification must be provided to the Chief Safety Officer or President / Vice-President – Pilot Provisioning.

**SCOPE:**

CAE Global Academies