

## **SUBPART 141A** **Student Pilot Licence Course**

### **TSH141A.1 Applicability:**

This appendix prescribes the minimum curriculum required for a student pilot licence course under this Part, for the following ratings:

- (a) Airplane single-engine.
- (b) Helicopter.
- (c) Glider and/or Motorglider.

### **TSH141A.3 Eligibility for enrollment:**

A person must hold Egyptian high school certificate or equivalent foreign high school certificate prior to enrolling in the flight portion of student licence course.

### **TSH141A.5 Ground training:**

- (a) Each approved course must include at least the following ground training on aeronautical knowledge areas, appropriate to the aircraft category and class for which the course applies:
  - (1) 20 hours of training if the course is for an airplane, or Helicopter, category rating.
  - (2) 15 hours of training if the course is for a glider and/or 20 hours if the course is for motorglider.
- (b) Ground training must include the following aeronautical knowledge areas:
  - (1) Applicable Egyptian Civil Aviation Regulations for student pilot privileges, limitations, and flight operations;
  - (2) Accident reporting requirements of the ECAA;
  - (3) Applicable subjects in the "Aeronautical Information Manual" and the appropriate ECAA advisory circulars;
  - (4) Use of aeronautical charts for VFR navigation using pilotage with the aid of a magnetic compass;
  - (5) Recognition of critical weather situations from the ground and in flight, windshear avoidance, and the procurement and use of aeronautical weather reports and forecasts;
  - (6) Safe and efficient operation of aircraft, including collision avoidance, and recognition and avoidance of wake turbulence;
  - (7) Effects of density altitude on takeoff and climb performance;
  - (8) Weight and balance computations;
  - (9) Principles of aerodynamics, power plants, and aircraft systems;
  - (10) Stall awareness, spin entry, spins, and spin recovery techniques, if applying for an airplane single-engine rating;
  - (11) (k) Aeronautical decision making and judgment; and
  - (12) 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.

### **TSH141A.7 Flight training:**

- (a) Each approved course must include put not limited to the following flight training, as provided in this section, on the approved areas of operation listed in paragraph (c) of this section, that are appropriate to the aircraft category and class rating for which the course applies, including :
  - (1) 12 hours of training if the course is for an airplane, or Helicopter, rating.
  - (2) 6 hours of training if the course is for a Glider.
  - (3) 10 hours of training if the course is for a Motor Glider.
- (b) Each approved course must include a preflight briefing and a postflight critique of the student by the flight instructor assigned to that flight and include at least the following flight training: -

- (1) For an airplane single engine course: 12 hours of flight training from a certificated flight instructor on the approved areas of operation in Paragraph (c)(1) of this section.
  - (2) For a Helicopter course : 12 hours of flight training from a certified flight instructor on the approved areas of operation in paragraph (c) (2) of this section.
  - (3) For a glider course: 6 hours of flight training from a certified flight instructor on the approved areas of operation in Paragraph (c)(3) of this section that includes at least :
    - (i) 6 hours of dual flight time as a pilot of gliders from an authorized glider flight instructor, including procedures on stall awareness, spin entry, spins and spin recovery techniques and training on towline release procedures on different levels.
    - (4) For a Motor glider course:
      - 10 hours of flight training from a certified flight instructor on the approved areas of operation in Paragraph (c)(3) of this section that includes at least :
        - (i) 2 hours of dual flight instruction in a motor glider which includes training on stall awareness, spin entry, spins, and spin recovery techniques, all of which are performed without engine power;
        - (ii) 10 landing flights in a motor glider without engine power and 10 landing flights in a motor glider with engine power;
        - (i) 2 hours of dual flight instruction as a pilot of a motor glider which includes training in the gaining of altitude without engine power; and 2 hours of dual flight instruction as a pilot in a motor glider during which training in emergency procedures will be performed (including engine failure on take-off, engine fire, landing gear malfunction.
        - (ii) 2 hours of dual flight instruction as a pilot in a motor glider during which training in emergency procedures will be performed (including engine failure on take-off, engine fire, landing gear malfunction.
- (c) Flight training must include the following approved areas of operation appropriate to the aircraft category and class rating -
  - (1) For an airplane single-engine course:
    - (i) Preflight preparation;
    - (ii) Preflight procedures;
    - (iii) Airport operations;
    - (iv) Takeoffs, landings, and go-arounds;
    - (v) Performance maneuvers;
    - (vi) Ground reference maneuvers;
    - (vii) Navigation;
    - (viii) Slow flight and stalls;
    - (ix) Emergency operations; and
    - (x) Postflight procedures.
  - (2) For a helicopter course:
    - (i) Preflight preparation;
    - (ii) Preflight procedures;
    - (iii) Airport and heliport operations;
    - (iv) Hovering maneuvers;
    - (v) Takeoffs, landings, and go-arounds;
    - (vi) Performance maneuvers;
    - (vii) Navigation;
    - (viii) Emergency operations; and
    - (ix) Postflight procedures.
  - (3) For a glider and/or Motor Glider course:
    - (i) Preflight preparation;
    - (ii) Preflight procedures;
    - (ii) Airport operations;

- (iii) Takeoffs, landings, and go-arounds;
- (iv) Ground reference maneuvers;
- (v) Navigation;
- (vi) Slow flight and stalls;
- (vii) Postflight procedures.
  - (viii) Operation of the glider and/or motor glider within its limitations;
  - (ix) Complete all maneuvers with smoothness and accuracy;
  - (x) Exercise good judgement and airmanship;
- (xi) Accuracy approaches and landings, with the nose of the glider coming to rest short of and within 100 feet of a line or mark on the ground;
- (xii) Glider launches by ground (auto and winch) or by aero tows (the applicants licence will be limited to the type of tow demonstrated; and
- (xiii) Precision maneuvering, including straight glides, turns to headings, steep turns and spirals in both directions and the correct use of the glider and/or motor glider performance speeds, flight at slow airspeeds with realistic distractions, and the recognition of and recovery from stalls entered from straight and level flight and turns.

**TSH141A.9 Solo flight training:**

A student pilot shall not fly solo unless under the supervision of , or with the authority of, an ECAA authorized flight instructor.

**TSH141A.11 Stage checks and end-of-course tests:**

Each student enrolled in a student pilot course must satisfactorily accomplish the stage checks and end-of-course tests, in accordance with the school's approved training course, consisting of the approved areas of operation listed in paragraph (c) of section No. 4 of this appendix that are appropriate to the aircraft category and class rating for which the course applies.