

## SUBPART 141A Private Pilot Licence Course

### **TSH141B.21 Applicability:**

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

- (a) Airplane single-engine.
- (b) Airplane multiengine.
- (c) Helicopter.
- (d) Glider and/or motor glider .
- (e) Lighter-than-air airship.
- (f) Lighter-than-air balloon.

### **TSH141B.23 Eligibility for enrollment:**

A person must hold a student pilot licence prior to enrolling in the flight portion of the private pilot licence course.

### **TSH141B.25 Ground training:**

- (a) Each approved course must include at least the following ground training on the aeronautical knowledge areas listed in paragraph (b) of this section, appropriate to the aircraft category and class rating:
  - (1) 35 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 35 hours if the course is for motor glider category rating.
  - (3) 10 hours of training if the course is for a lighter-than-air category with a balloon class rating.
  - (4) 35 hours of training if the course is for a lighter-than-air category with an airship class rating.
- (b) Ground training must include the following aeronautical knowledge areas:
  - (1) Applicable Egyptian Civil Aviation Regulations for private pilot privileges, limitations, flight operations; and Egyptian Aeronautical Information Publication AIP.
  - (2) Accident reporting requirements of the ECAA;
  - (3) Applicable subjects of the "Aeronautical Information Manual" and the appropriate ECAA advisory circulars;
  - (4) 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) If the course of training is for an airplane category or Glider and/ or Motor Glider category rating, stall awareness, spin entry, spins, and spin recovery techniques;
  - (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.

### **TSH141B.27 Flight training:**

- (a) Each approved course must include at least the following flight training, as provided in this section and new section No. 5 of this appendix, on the approved areas of operation listed in paragraph (d) of this section, appropriate to the aircraft category and class rating:
- (1) 40 hours of training if the course is for an airplane, Helicopter, or airship rating.
  - (2) 20 hours of training if the course is for a glider rating and/ or 40 hours if the course is for a motor glider rating.
  - (3) 16 hours of training if the course is for a balloon rating.
- (b) Each approved course must include at least the following flight training:
- (1) For an airplane single-engine course:  
20 hours of flight training from a certificated flight instructor on the approved areas of operation in paragraph (d)(1) of this section that includes at least -
    - (i) 3 hours of cross-country flight training in a single-engine airplane;
    - (ii) 3 hours of night flight training in a single-engine airplane that includes -
      - (A) One cross-country flight of more than 100-nautical-miles total distance; and
      - (B) 10 takeoffs and 10 landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport.
    - (iii) 3 hours of instrument training in a single-engine airplane; and
  - (iv) 3 hours of flight training in a single-engine airplane in preparation for the practical test within 60 days preceding the date of the test.
  - (2) For an airplane multiengine course:  
20 hours of flight training from a certificated flight instructor on the approved areas of operation in paragraph (d)(2) of this section that includes at least -
    - (i) 3 hours of cross-country flight training in a multiengine airplane;
    - (ii) 3 hours of night flight training in a multiengine airplane that includes -
      - (A) One cross-country flight of more than 100-nautical-miles total distance; and
      - (B) 10 takeoffs and 10 landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport.
    - (iii) 3 hours of instrument training in a multiengine airplane; and
    - (iv) 3 hours of flight training in a multiengine airplane in preparation for the practical test within 60 days preceding the date of the test.
  - (3) For a helicopter course:  
20 hours of flight training from a certificated flight instructor on the approved areas of operation in paragraph (d)(3) of this section that includes at least -
    - (i) 3 hours of cross-country flight training in a helicopter.
    - (ii) 3 hours of night flight training in a helicopter that includes -
      - (A) One cross-country flight of more than 50-nautical-miles total distance; and
      - (B) 10 takeoffs and 10 landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport.
    - (iii) 3 hours of flight training in a helicopter in preparation for the practical test within 60 days preceding the date of the test.
  - (4) For a glider course:  
3 hours of flight training in a glider from a certificated flight instructor on the approved areas of operation in paragraph (d)(4) of this section that includes at least -
    - (i) Five training flights in a Glider from a certificated flight instructor on the launch/tow procedures approved for the course and on the appropriate approved areas of operation listed in paragraph (d)(4) of this section; and
    - (ii) Three training flights in a Glider with a certificated flight instructor in preparation for the practical test within 60 days preceding the date of the test and/or
  - (5) For a motor Glider course:  
training from a certificated flight instructor on the approved areas of operation in paragraph (d)(4) of this section that includes at least:-
    - (i) 3 hours of cross-country flight training in a motor glider.
    - (ii) 3 hours of instrument training in a motor glider.

- (iii) 3 hours of flight training in a motor glider in preparation for the practical test within 60 days preceding the date of the test.
- (6) For a lighter-than-air airship course:
  - 20 hours of flight training from an airship flight instructor pilot with an airship rating on the approved areas of operation in paragraph (d)(5) of this section that includes at least -
    - (i) 3 hours of cross-country flight training in an airship;
    - (ii) 3 hours of night flight training in an airship that includes -
      - (A) One cross-country flight over 25-nautical-miles total distance; and
      - (B) Five takeoffs and five landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport.
    - (iii) 3 hours of instrument training in an airship; and
    - (iv) 3 hours of flight training in an airship in preparation for the practical test within 60 days preceding the date of the test.
  - (7) For a lighter-than-air balloon course:
    - 8 hours of flight training, including at least five training flights, from a balloon flight instructor pilot on the approved areas of operation in paragraph (d)(6) of this section, that includes -
      - (i) If the training is being performed in a gas balloon -
        - (A) Two flights of 1 hour each;
        - (B) One flight involving a controlled ascent to 3,000 feet above the launch site; and
- (C) Two flights in preparation for the practical test within 60 days preceding the date of the test.
  - (ii) If the training is being performed in a balloon with an airborne heater
    - (A) Two flights of 30 minute each;
    - (B) One flight involving a controlled ascent to 2,000 feet above the launch site; and
- (C) Two flights in preparation for the practical test within 60 days preceding the date of the test.
  - (c) For use of flight simulators or flight training devices:
    - (1) The course may include training in a flight simulator or flight training device, provided it is representative of the aircraft for which the course is approved, meets the requirements of this paragraph, and the training is given by an authorized instructor.
    - (2) Training in a flight simulator that meets the requirements of 141.41(a) of this Part may be credited for a maximum of 5 hours of the total flight training hour requirements of the approved course, or of this section, whichever is less.
    - (3) Training in a flight training device that meets the requirements of 141.41(b) of this Part may be credited for a maximum of 2.5 hours of the total flight training hour requirements of the approved course, or of this section, whichever is less.
    - (4) Training in flight simulators or flight training devices described in paragraphs (c)(2) and (c)(3) of this section, if used in combination, may be credited for a maximum of 5 hours of the total flight training hour requirements of the approved course, or of this section, whichever is less. However, credit for training in a flight training device that meets the requirements of 141.41(b) cannot exceed the limitation provided for in paragraph (c)(3) of this section.
- (d) Each approved course must include the flight training on the approved areas of operation listed in this paragraph that are appropriate to the aircraft category and class rating -
  - (1) For a single-engine airplane course:
    - (i) Preflight preparation;
    - (ii) Preflight procedures;
    - (iii) Airport and seaplane base operations;
    - (iv) Takeoffs, landings, and go-arounds;
    - (v) Performance maneuvers;
    - (vi) Ground reference maneuvers;
    - (vii) Navigation;
    - (viii) Slow flight and stalls;
    - (ix) Basic instrument maneuvers;
    - (x) Emergency operations;

- (xi) Night operations, and
- (xii) Postflight procedures.
- (2) For a multiengine airplane course:
  - (i) Preflight preparation;
  - (ii) Preflight procedures;
  - (iii) Airport and seaplane base operations;
  - (iv) Takeoffs, landings, and go-arounds;
  - (v) Performance maneuvers;
  - (vi) Ground reference maneuvers;
  - (vii) Navigation;
  - (viii) Slow flight and stalls;
  - (ix) Basic instrument maneuvers;
  - (x) Emergency operations;
  - (xi) Multiengine operations;
  - (xii) Night operations; and
  - (xiii) Postflight procedures.
- (3) 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;
  - (ix) Night operations; and
  - (x) Postflight procedures.
- (4) For a glider and/or Motor Glider course:
  - (i) Preflight preparation;
  - (ii) Preflight procedures;
  - (iii) Airport, glider and motor glider port operations;
  - (iv) Launches/ tows as appropriate .
  - (v) Takeoffs, landings, and go-arounds (motor gliders);
  - (vi) Ground reference maneuvers;
  - (vii) Navigation;
  - (viii) Slow flight and stalls;
  - (ix) Emergency operations.
    - (x) Operation of the glider within its limitations;
    - (xi) Complete all maneuvers with smoothness and accuracy;
    - (xii) Exercise good judgement and airman ship;
    - (xiii) 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;
    - (xiv) Glider launches by ground (auto and winch) or by aero tows (the applicants licence will be limited to the type of tow demonstrated; and
    - (xv) Precision maneuvering, including straight glides, turns to headings, steep turns and spirals in both directions and the correct use of the gliders\* 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.
- (xvi) Postflight procedures.
- (5) For a lighter-than-air airship 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) Emergency operations; and
- (ix) Postflight procedures.
- (6) For a lighter-than-air balloon course:
  - (i) Preflight preparation;
  - (ii) Preflight procedures;
  - (iii) Airport operations;
  - (iv) Launches and landings;
  - (v) Performance maneuvers;
  - (vi) Navigation;
  - (vii) Emergency operations; and
  - (viii) Postflight procedures.

**TSH141B.29 Solo flight training:**

Each approved course must include at least the following solo flight training:

- (a) For an airplane single-engine course: 10 hours of solo flight training in a single-engine airplane on the approved areas of operation in paragraph (d)(1) of section No. 4 of this appendix that includes at least -
  - (1) 5 hours of solo cross-country flight training that include one solo cross-country flight of at least 150 nautical miles with landings at a minimum of three points, and one segment of the flight consisting of a straight-line distance of at least 50 nautical miles between the takeoff and landing locations; and
  - (2) Three takeoffs and three landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport with an operating control tower.
- (b) For an airplane multiengine course: 10 hours of flight training in a multiengine airplane performing the duties of a pilot in command while under the supervision of a certificated flight instructor. The training must consist of the approved areas of operation in paragraph (d)(2) of section No. 4 of this appendix, and include at least -
  - (1) One cross-country flight of at least 150 nautical miles with landings at a minimum of three points, and one segment of the flight consisting of a straight-line distance of at least 50 nautical miles between the takeoff and landing locations; and
  - (2) Three takeoffs and three landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport with an operating control tower.
- (c) For a helicopter course: 10 hours of solo flight training in a helicopter on the approved areas of operation in paragraph (d)(3) of section No. 4 of this appendix that includes at least -
  - (1) 5 hours of solo cross-country flight training that include one solo cross-country flight of more than 100 nautical miles with landings at a minimum of three points, and one segment of the flight consisting of a straight-line distance of at least 50 nautical miles between the takeoff and landing locations; and
  - (2) Three takeoffs and three landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport with an operating control tower.
- (d) For a glider course:
  - 10 hours solo flight training in a Glider on the approved areas of operation in paragraph (d)(4) of section No. 4 of this appendix, that include at least:
    - (1) 40 solo launchings and landings must have been performed;
    - (2) 2 solo glider flights of not less than 30 minutes duration for each flight; and/or,
- (e) For Motor glider course:
  - 25 hours solo flight training in a motor glider on the approved areas of operation in paragraph (d)(4) of section No. 4 of this appendix, that include at least:-
    - (1) 3 cross country flights, each of which shall be at least 81NM(150 KM) from the point of departure and include:
      - 
      - (i) Cross country flight in which no landing is made en-route;

- (ii) Cross country flight in which a landing at 2 different points shall be made;
- (iii) Cross country flight to be flown in a tri-angular flight pattern.
- (2) At least 10 landing flights in a motor glider with engine power;
- (3) At least 10 landing flights in a motor glider without engine power;
- (4) At least 2 hours flight time in a motor glider performing climbs to a higher altitude performed by means of ascending winds without engine power.
- (f) For a lighter-than-air airship course: 5 hours of flight training in an airship performing the duties of pilot in command while under the supervision of an airship instructor pilot. The training must consist of the approved areas of operation in paragraph (d)(5) of section No. 4 of this appendix.
- (g) For a lighter-than-air balloon course: Two solo flights in a balloon with an airborne heater if the course involves a balloon with an airborne heater or, if the course involves a gas balloon, at least two flights in a gas balloon performing the duties of pilot in command while under the supervision of a balloon instructor pilot. The training must consist of the approved areas of operation in paragraph (d)(6) of section No. 4 of this appendix, in the kind of balloon for which the course applies.

**TSH141B.31 Stage and Final Tests:**

- (a) Each student enrolled in an approved private pilot licence course must satisfactorily accomplish the stage and final tests prescribed in this section. The written tests may not be credited for more than 3 hours of required ground instruction and training; flight tests may not be credited for more than 4 hours of the 35 hours of required flight training.
- (b) Each student must satisfactorily accomplish a written examination at the completion of each training syllabus for the private pilot licence course and final test at the conclusion of that course.
- (c) Each student must satisfactorily accomplish a flight test at the completion of his first solo flight and at the completion of his first solo cross-country flight, and at the conclusion of the private pilot Licence course.