

Operations Attachments

NTSB Investigation: ERA23FA340

**Instructor Briefing Sheet Test**

Prepared: 08/21/23 11:34

Curriculum Data

CFI Proficiency Check -141 Rev.2

Syllabus: CFI

Course: 0002

Stage 1 - Review of TCO

Lesson: 1

Score: 

Stage 2 - 141 Flight Checkout

Lesson: 1 2 3 4 5 6 7 8 9 10 11 12 13

Score:              **Stage: 2 Lesson: 2**  
**PA-28-161 PPL / CPL 141 Checkout****Lesson Description:** Dual - Local (2.2) (0.3) Instrument**Lesson Objectives**

1. Part 141 requires all flight instructors to be qualified to teach each course of training to which they are assigned, and prescribes certain knowledge and proficiency tests to be accomplished prior to being assigned to an approved training course.

**Lesson Preflight Discussion**

1. Lesson Objectives and Completion Standards

Discussion Duration: \_\_\_\_\_

**Lesson Completion Standards**

1. The instructor must satisfactorily accomplish a one-time proficiency test in each M/M of aircraft (Piper 28 161) before giving any flight instruction in the particular aircraft. The flight instructor shall meet or exceed the Commercial Pilot Airplane ACS standards.

**Stage Scoring Scale: S-U-I**

- S Satisfactory  
U Unsatisfactory  
I Incomplete

| Sub-Activity                             | This Flight                      |                   |
|------------------------------------------|----------------------------------|-------------------|
|                                          | PA-28-161 PPL / CPL 141 Checkout | Score This Flight |
| <b>Preflight</b>                         |                                  |                   |
| <i>Preflight Procedures</i>              |                                  |                   |
| Pilot Qualifications                     | Review                           |                   |
| Airworthiness Requirements               | Review                           |                   |
| Weather Information                      | Review                           |                   |
| Cross - Country Flight Planning          | Review                           |                   |
| National Airspace System                 | Review                           |                   |
| Review of V-Speeds                       | Review                           |                   |
| Performance and Limitations              | Review                           |                   |
| Operation of Systems                     | Review                           |                   |
| Human Factors                            | Review                           |                   |
| <i>Preflight Procedures</i>              |                                  |                   |
| Preflight Assessment                     | Review                           |                   |
| Flight Deck Management                   | Review                           |                   |
| Engine Starting                          | Review                           |                   |
| Taxiing                                  | Review                           |                   |
| Before Takeoff Check                     | Review                           |                   |
| <b>Airport Base Operation</b>            |                                  |                   |
| Communications and Light Signals         | Review                           |                   |
| Traffic Patterns                         | Review                           |                   |
| <b>Procedures</b>                        |                                  |                   |
| Use of the Checklist                     | Review                           |                   |
| Single Pilot Resource Management         | Review                           |                   |
| Positive Exchange of the Flight Controls | Review                           |                   |
| Stall/Spin Awareness                     | Review                           |                   |
| Wake Turbulence Avoidance                | Review                           |                   |
| Low Level Wind Shear                     | Review                           |                   |

| Sub-Activity                                                                                                                    | This Flight                      |                   |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------|
|                                                                                                                                 | PA-28-161 PPL / CPL 141 Checkout | Score This Flight |
| Visual Scanning and Collision Avoidance                                                                                         | Review                           |                   |
| Runway Incursion Avoidance                                                                                                      | Review                           |                   |
| <b>Air Traffic Control Clearances and Procedures</b>                                                                            |                                  |                   |
| <b>Takeoffs, Landings, and Go-Arounds (The check instructor shall select at least three different landings to be performed)</b> |                                  |                   |
| <i>Takeoffs, Landings, and Go-Arounds A</i>                                                                                     |                                  |                   |
| Normal/Crosswind Takeoff and Climb                                                                                              | Review                           |                   |
| Normal/Crosswind Approach and Landing                                                                                           | Review                           |                   |
| Soft-Field Takeoff and Climb                                                                                                    | Review                           |                   |
| Soft-Field Approach and Landing                                                                                                 | Review                           |                   |
| Short-Field Takeoff and Maximum Performance Climb                                                                               | Review                           |                   |
| Short-Field Approach and Landing                                                                                                | Review                           |                   |
| Forward Slip to a Landing                                                                                                       | Review                           |                   |
| Go-Around/Rejected Landing                                                                                                      | Review                           |                   |
| <i>Takeoffs, Landings, and Go-Arounds B</i>                                                                                     |                                  |                   |
| Power - Off 180° Accuracy Approach and Landing                                                                                  | Review                           |                   |
| <b>Basic Maneuvers</b>                                                                                                          |                                  |                   |
| Straight-and-Level Flight                                                                                                       | Review                           |                   |
| Turns at different Bank Angles                                                                                                  | Review                           |                   |
| Climbs and Descents                                                                                                             | Review                           |                   |
| Climbing and Descending Turns                                                                                                   | Review                           |                   |
| <b>Ground Reference Maneuvers (The check instructor shall select at least one ground reference maneuver to be performed)</b>    |                                  |                   |
| Rectangular Course                                                                                                              | Review                           |                   |
| S-Turns                                                                                                                         | Review                           |                   |
| Turns Around a Point                                                                                                            | Review                           |                   |
| Eights on Pylons                                                                                                                | Review                           |                   |
| <b>Performance Maneuver (The check instructor shall select at least two maneuver to be performed)</b>                           |                                  |                   |
| Steep Turns                                                                                                                     | Review                           |                   |
| Steep Spiral                                                                                                                    | Review                           |                   |
| Chandelles                                                                                                                      | Review                           |                   |
| Lazy Eights                                                                                                                     | Review                           |                   |
| <b>Slow Flight and Stalls (The check instructor shall select at least two maneuver to be performed)</b>                         |                                  |                   |
| Maneuvering During Slow Flight                                                                                                  | Review                           |                   |
| Power-Off Stall                                                                                                                 | Review                           |                   |
| Power-On Stall                                                                                                                  | Review                           |                   |
| Accelerated Stalls                                                                                                              | Review                           |                   |
| Spin Awareness                                                                                                                  | Review                           |                   |
| <b>Emergency Operations</b>                                                                                                     |                                  |                   |
| Emergency Descent                                                                                                               | Review                           |                   |
| Emergency Approach and Landing (ASEL)                                                                                           | Review                           |                   |
| Systems and Equipment Malfunctions                                                                                              | Review                           |                   |
| Emergency Equipment and Survival Gear                                                                                           | Review                           |                   |
| Electrical Malfunctions and Failure                                                                                             | Review                           |                   |
| <b>Basic Instrument Maneuvers</b>                                                                                               |                                  |                   |
| Straight-and-Level Flight                                                                                                       | Review                           |                   |
| Constant Airspeed Climbs                                                                                                        | Review                           |                   |
| Constant Speed Descents                                                                                                         | Review                           |                   |
| Turns to Headings                                                                                                               | Review                           |                   |
| Recovery from Unusual Attitudes                                                                                                 | Review                           |                   |
| Radio Communications, Navigation Systems/Facilities, and Radar Services                                                         | Review                           |                   |
| <b>Night Operation</b>                                                                                                          |                                  |                   |
| <b>Post Flight Procedures</b>                                                                                                   |                                  |                   |
| After Landing                                                                                                                   | Review                           |                   |
| Parking and Securing the Aircraft                                                                                               | Review                           |                   |
| <b>Objectives and Standards of Aviator College TCO</b>                                                                          |                                  |                   |
| <b>Instrument</b>                                                                                                               |                                  |                   |
| <b>Multiengine Operations</b>                                                                                                   |                                  |                   |
| Overall Score                                                                                                                   |                                  |                   |
| Lesson Complete                                                                                                                 |                                  |                   |

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College of Aeronautical Science & Technology

## Employee Hiring Form

Employee Name: Fernando Macedo Garduno

Manager Name: A. Lopez

Pay Rate: [REDACTED] ☒ Hourly ☐ Yearly

Official Start Date: 8/8/23 (Required)

Employee Position: CFI

Employee Schedule N/A (if applicable)

• Please attach Job Description with Employee Signature to Form

## 8.9 PERFORMANCE MANEUVERS

### 8.9.1 Steep Turns

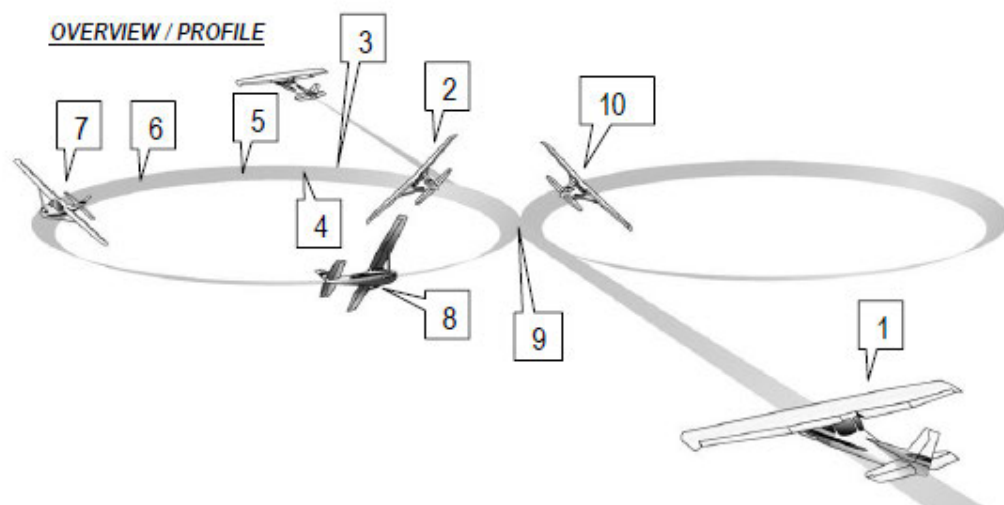
#### DEFINITION(S)

The steep turn maneuver consists of two consecutive 360° turns in either direction (usually first to the left and then to the right), using a bank angle between 45 to 60° (45° bank angle at the Private Pilot level and 50° at the Commercial Pilot level). This will cause an overbanking tendency during which maximum turning performance is attained and relatively high load factors are imposed.

#### PURPOSE(S) OF THE MANEUVER

The objective of the maneuver is to develop the smoothness, coordination, orientation, division of attention between inside and outside references, and control techniques necessary for the execution of maximum performance turns when the airplane is near its performance limits. Smoothness of control use, coordination, and accuracy of execution are the important features of this maneuver.

#### OVERVIEW / PROFILE



#### STEP-BY-STEP PROCEDURES

1. Establish A/C at 2,500ft MSL on a selected heading (use cardinal headings for general orientation, prominent landmark such as a road, canal or railroad). Power should be set to cruise power setting 2300 RPM. A/C trimmed for level flight.
2. Initiate the first turn to the left through a smooth and coordinated use of ailerons and rudder deflection.
3. As the bank angle increases, apply necessary back elevator pressure to maintain altitude.
4. As the bank angle reaches about 30°, increase the power to 2350 to 2400 RPM to maintain the selected A/S (≈90 KIAS).

5. As the airplane reaches the desired bank angle (45° bank angle at the Private Pilot level and 50° at the Commercial Pilot level), apply slight aileron pressure in the opposite direction of the turn to compensate for the airplane's overbanking tendency. This will allow the airplane to maintain the desired bank angle.
6. Maintain constant awareness by referring to outside and inside references for any gain or loss of altitude, changes in attitude, changes in airspeed and general spatial orientation during the turn.
7. If the altitude begins to increase, or decrease, relaxing or increasing the back-elevator pressure will be required as appropriate. A small increase or decrease of 1 to 3° of bank angle may be used to control small altitude deviations. Small power adjustments may be required to maintain A/S.
8. As the airplane approaches the rollout heading (anticipate by half of the bank angle), smoothly roll the airplane back to wings level so that the wings reach level flight when the airplane is exactly on the heading from which the maneuver was started.
9. As the airplane rolls out, back-elevator pressure is gradually released and power reduced, as necessary, to maintain the altitude and airspeed.
10. Proceed to initiate a steep turn in the other direction using the same techniques described here above.
11. Once A/C has completed the second consecutive turn, exit the maneuver on the original heading and resume back to normal cruise configuration.

## COMMON MISTAKES

- Failure to adequately clear the area.
- Excessive pitch change during entry or recovery.
- Attempts to start recovery prematurely.
- Failure to stop the turn on a precise heading.
- Excessive rudder during recovery, resulting in skidding.
- Inadequate power management.
- Inadequate airspeed control.
- Poor coordination.
- Gaining altitude in right turns and/or losing altitude in left turns.
- Failure to maintain constant bank angle.
- Disorientation.
- Attempting to perform the maneuver by instrument reference rather than visual reference.
- Failure to scan for other traffic during the maneuver.

## COMPLETION STANDARDS

- ✓ Private Pilot ASEL PTS, AREA OF OPERATION V, TASK A: Steep Turns
- ✓ Commercial Pilot ASEL PTS, AREA OF OPERATION V, TASK A: Steep Turns
- ✓ CFI ASE PTS, AREA OF OPERATION IX, TASK A: Steep Turns
- ✓ Airline Transport Pilot ASEL PTS, AREA OF OPERATION IV, TASK A: Steep Turns