

TENNESSEE TAILWHEEL LLC

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Tailwheel Training Syllabus

The following syllabus is a guide for our instructors. Each instructor differs in teaching method and this may include covering the following curriculum in a different order than published. Irrespective, you will complete the following curriculum when you earn your endorsement.

Block 1: Introduction to Tailwheel Basics and Airplane Familiarization.

(Minimum of 1.5 hr ground instruction and 1 hrs of flight instruction).

General Information:

- Tailwheel basics; CG, Stability, limitations, "attitude flying," basic differences in landing technique. Review manual, checklists, discuss pre-filled worksheet.
- Left turning tendency; "torque" sources and their control. (Cross-coordination)
- Factors that determine tailwheel aircraft behavior, types of tailwheels, and more.

Aircraft Familiarization: (7ECA)

- Preflight inspection and cockpit/control familiarity, fabric plane precautions on ground!
- Power plant and performance information/limitations.
- Introduction to brakes and seated landing attitude.

Taxiing:

- Engine starting and slow straight taxi. Introduction to wind correction in taxi.
- Cautious use of brakes.
- Left and right turns.
- Left and right pivots; explanation of "free castering" tailwheel.
- Pivot into parking position.
- Moderately quicker taxis with/without weaving, swerve recovery.

Familiarization with Aircraft Flight Characteristics:

- Pre-flight checks and demonstration of normal take-off (instructor at the controls).
- Climb out with transition to straight and level (student at the controls).
- Adverse yaw and aileron/rudder coordination demonstration (instructor at the controls).
- Aileron/rudder coordination exercises (student at the controls).
- Medium bank turns (student at the controls).
- Steep bank turns (student at the controls).
- Slow flight and stalls (student at the controls).
- Climbs and descents both straight and turning (student at the controls).
- Ground reference maneuvers (student at the controls).
- Demonstration of normal landing (instructor at the controls).

Block 2: Take-offs and 3-Point Landings

(Minimum of 0.5 hr ground instruction and 2.0 hrs of flight instruction).

Preflight and Taxiing: (refer to **Block 1**)

Flight Maneuvers:

- Normal take-off in benign wind conditions.
- Traffic pattern and approaches – airspeed and alignment control.
- Normal 3-point landings in benign wind conditions (on grass initially, if possible).
- Bounce – cause and recovery, go around
- Slips to landing.
- Soft/short field take-offs and landings.
- Emergency procedures.

Block 3: Light Crosswind Techniques

(Minimum of 0.3 hr ground instruction and 2.0 hrs of flight instruction).

Taxiing: (refer to **Block 1**)

Flight Maneuvers:

- Crosswind taxi and take-offs (6 to 8 knot crosswind component).
- Traffic pattern and approaches – airspeed and alignment control.
- Crosswind 3-Point landings (6 to 8 knot crosswind component).
- Bounce – cause and recovery.
- Slips to landing.
- Emergency procedures, malfunctions.

Block 4: Wheel landings

(Minimum of 0.3 hr ground instruction and 2.5 hrs of flight instruction).

Taxiing: (refer to **Block 1**)

Flight Maneuvers:

- Normal take-off in benign wind conditions.
- Traffic pattern and approaches – airspeed and alignment control.
- Normal wheel landings in benign wind conditions (on grass initially, if possible).
- Bounce: Cause and recovery.
- Slips to landing.
- Emergency procedures.

Block 5: Taxiing in Windy Conditions and Moderate Crosswind Techniques

(Minimum of 0.3 hr ground instruction and 2.5 hrs of flight instruction).

Taxiing in Windy Conditions: (15+ knots)

- Flight control positioning.
- Turns into the wind.
- Turns away from the wind.
- Crosswind taxi.

Flight Maneuvers:

- Crosswind take-offs (10+ knot crosswind component).
- Traffic pattern and approaches – airspeed and alignment control.
- Crosswind 3-Point landings (10+ knot crosswind component).
- Crosswind wheel landings (10+ knot crosswind component).
- Bounce – cause and recovery.
- Slips to landing.
- Emergency procedures, go-arounds.

NEED RENTERS INSURANCE?

The following insurance companies will be happy to provide a quote and answer any questions you may have about renters coverage while renting aircraft from Tennessee Tailwheel LLC (*none are affiliated with Tennessee Tailwheel LLC other than to provide insurance advice and services*):

CS&A Insurance – Aviation Division: Chris Davis: 1-800-999-1109
AIG Aviation: Kel Petersen and Associates Inc: 816-421-5959
AOPA Insurance Agency: 1-800-622-2672