Unit 1 – Introduction to Flying Tailwheel Airplanes

Objective

Introduce the learner to tailwheel airplane taxiing and flight characteristics.

Preparation

- AFH (FAA-H-8083-3C) – Chapter 14: Transition to Tailwheel Airplanes
- Flying Tailwheel Airplanes (John A Valade)
- The Compleat Taildragger Pilot (Harvey S. Plourde)

Content

Preflight Discussion

- ❒ 14 CFR Part 61.31 and 61.57
- ❒ Operating Handbook Review
- ❒ Systems Description Deep Dive
- ❒ Normal and Emergency Procedures
- ❒ Adverse Yaw
- ❒ Stall and Spin Characteristics
- ❒ Reference Attitudes – 3 pt and 2 pt
- ❒ Angle of Attack on Ground
- ❒ Taxiing: CG position, instability, forces and controls
- ❒ Taxiing: Steering and Braking
- ❒ Taxiing: Visibility
- ❒ Taxiing: Wind/Weathervane effects
- ❒ Taxiing: Ground Loop
- ❒ Taxiing: Paved and Non-paved surfaces
- ❒ Normal Takeoff and Climb
- ❒ Turning Tendencies
- ❒ Pre-Flight Assessment (PAVE/CARE/TEAM)

Flight Training

- ❒ Pre-Flight Inspection
- ❒ Engine Starting Procedure
- ❒ Taxiing
- ❒ Before Takeoff Check
- ❒ Normal Takeoff and Climb (Flight Instructor Demo)
- ❒ Rudder Coordination Exercises
- ❒ Medium Banked Turns
- ❒ Steep Banked Turns
- ❒ Slow Flight
- ❒ Power-Off Stall
- ❒ Power-On Stall
- ❒ Forward and Side Slip
- ❒ Emergency Approach and Landing
- ❒ Normal Approach and Landing (Flight Instructor Demo)
- ❒ After Landing, Parking, Securing

Completion Standards

- ❒ The learner demonstrates understanding of tailwheel ground handling tendencies and the required pilot technique to maintain directional control while taxiing.

Date_____	Student Name_____	Student Signature_____
Aircraft ID_____	Instructor Name_____	Instructor Signature_____
Complete _____	Ground Time (1.5) _____	Flight Time (1.0) _____

Unit 2 – Introduction to Takeoffs and Three Point Landings

Lesson Objective

Introduce the learner to tailwheel airplane takeoff, landing and go-around procedures.

Content

Preflight Discussion

- ❒ Normal Takeoff and Climb
- ❒ Stabilized Approach
- ❒ Normal Approach and Landing
- ❒ Three Point Landings
- ❒ Bounce Recoveries
- ❒ Ground Loop Avoidance
- ❒ Go Around Procedure
- ❒ Pre-Flight Assessment (PAVE/CARE/TEAM)

Flight Training

- ❒ Pre-Flight Inspection
- ❒ Engine Starting Procedure
- ❒ Taxiing
- ❒ Before Takeoff Check
- ❒ Normal Takeoff and Climb
- ❒ Forward and Side Slip
- ❒ Traffic Pattern
- ❒ Normal Approach and Three Point Landing
- ❒ Go-Around / Rejected Landing
- ❒ Power-Off 180 Approach and Landing
- ❒ After Landing, Parking, Securing

Completion Standards

- ❒ The learner maintains directional control throughout the takeoff roll and initial climb.
- ❒ The learner demonstrates the ability to establish and maintain a stabilized approach to the designated aim point.
- ❒ The learner recognizes situations requiring a go-around and safety executes the go-around procedure.
- ❒ The learner establishes and maintains the three point attitude throughout the landing flare, maintains directional control, and moves the flight controls fully aft after landing to keep the tailwheel in contact with the ground.

Date_____	Student Name_____	Student Signature_____
Aircraft ID_____	Instructor Name_____	Instructor Signature_____
Complete _____	Ground Time (0.5 _____	Flight Time (1.5) _____

Unit 3 –Wheel Landings

Lesson Objective

Introduce the learner to the wheel landing technique.

Content

Preflight Discussion

- ❒ Wheel Landings
- ❒ Pre-Flight Assessment (PAVE/CARE/TEAM)

Flight Training

- ❒ Pre-Flight Inspection
- ❒ Engine Starting Procedure
- ❒ Taxiing
- ❒ Before Takeoff Check
- ❒ Normal Takeoff and Climb
- ❒ Forward and Side Slip
- ❒ Traffic Pattern
- ❒ Wheel Landing
- ❒ Go-Around / Rejected Landing
- ❒ Power-Off 180 Approach and Landing
- ❒ After Landing, Parking, Securing

Completion Standards

- ❒ The learner establishes and maintains the two point attitude throughout the landing level off, flying the airplane onto the runway surface, while maintaining directional control
- ❒ The learner maintains the two point attitude throughout the wheel landing rollout until the elevator loses effectiveness and then moves the flight controls fully aft after landing to keep the tailwheel in contact with the ground.

Date_____	Student Name_____	Student Signature_____
Aircraft ID_____	Instructor Name_____	Instructor Signature_____
Complete _____	Ground Time (0.5) _____	Flight Time (1.5) _____

Lesson 4 – Crosswind Operations

Lesson Objective

Introduce the learner to crosswind takeoff and landing techniques.

Content

Preflight Discussion

- ❒ Strong and Gusty Wind Operations
- ❒ Taxiing in windy conditions
- ❒ Crosswind Takeoff and Climb
- ❒ Crab Approach Method
- ❒ Wing Down Approach Method
- ❒ Crosswind Approach and Landing
- ❒ Pre-Flight Assessment (PAVE/CARE/TEAM)

Flight Training

- ❒ Pre-Flight Inspection
- ❒ Engine Starting Procedure
- ❒ Taxiing
- ❒ Before Takeoff Check
- ❒ Crosswind Takeoff and Climb
- ❒ Forward and Side Slip
- ❒ Traffic Pattern
- ❒ Crosswind Approach and Three Point Landing
- ❒ Crosswind Approach and Wheel Landing
- ❒ Go-Around / Rejected Landing
- ❒ Power-Off 180 Approach and Landing
- ❒ After Landing, Parking, Securing

Completion Standards

- ❒ The learner can perform crosswind takeoffs and crosswind landings, maintaining directional control and with no side drift, in conditions that are at least 50% of the demonstrated crosswind component for the training airplane.

Date_____	Student Name_____	Student Signature_____
Aircraft ID_____	Instructor Name_____	Instructor Signature_____
Complete _____	Discussion Time (0.5) _____	Flight Time (1.5) _____

Unit 5 – Short and Soft Field Operations

Lesson Objective

The learner will learn short and soft field takeoff and landing techniques.

Content

Preflight Discussion

- ❒ POH Review: Performance
- ❒ Short Field Operations
- ❒ Soft Field Operations
- ❒ Unimproved surfaces
- ❒ Pre-Flight Assessment (PAVE/CARE/TEAM)

Flight Training

- ❒ Pre-Flight Inspection
- ❒ Engine Starting Procedure
- ❒ Taxiing
- ❒ Before Takeoff Check
- ❒ Normal Takeoff and Climb
- ❒ Soft Field Takeoff and Climb
- ❒ Short Field Takeoff and Climb
- ❒ Forward and Side Slip
- ❒ Traffic Pattern
- ❒ Soft Field Approach and Landing
- ❒ Short Field Approach and Landing
- ❒ Wheel Landing
- ❒ Go-Around / Rejected Landing
- ❒ Normal Approach and Landing
- ❒ Power-Off 180 Approach and Landing
- ❒ After Landing, Parking, Securing

Completion Standards

- ❒ The learner can consistently perform the following maneuvers within the standard specified in the Private Pilot Airplane ACS for the associated maneuver.
  - ❒ Normal Takeoff and Climb
  - ❒ Normal Approach and Landing
  - ❒ Soft-Field Takeoff and Climb
  - ❒ Soft-Field Approach and Landing
  - ❒ Short-Field Takeoff and Maximum Performance Climb
  - ❒ Short Field Approach and Landing
  - ❒ Forward Slip to a Landing
  - ❒ Go-Around/Rejected Landing

Date_____	Student Name_____	Student Signature_____
Aircraft ID_____	Instructor Name_____	Instructor Signature_____
Complete _____	Discussion Time (0.5) _____	Flight Time (1.5) _____