



aero enterprises

realize your full potential as a pilot

Gordonsville Municipal Airport | 540-850-0984 | dan@flyacro.us

Tailwheel Syllabus

Lesson 1

Ground: Discuss basic conventional gear versus tricycle gear configuration differences including engine torque/spiral slipstream/p-factor/precession effects. Examine normal tail-down sight picture and control usage during ground ops for wind conditions. Aircraft familiarization (controls, fuel injection, constant-speed prop, etc.). Startup procedure, low-speed taxi operations, s-turns, pivot-turns, brake use. Run-up, takeoff, climb, cruise, aileron/rudder exercise, minimum controllable airspeed, power-off and -on stalls, falling leaf, slips. Cruise, descent, pattern entry, landing, roll-out, taxi, and shutdown.

- Flight:**
1. Takeoff, climb, and cruise
 2. Aileron/rudder (“Dutch rolls”) exercise
 3. Flight at minimum controllable airspeed
 4. Stalls: power-off, power-on
 5. “Falling Leaf” exercise
 6. Forward slips
 7. Descent, pattern entry, approach, landing, taxi, and shutdown

Lesson 2

Ground: Review ground operations. Takeoff, climb, cruise, aileron/rudder exercise. Descent, pattern entry, and approach. Three point landings (with benign wind conditions). Grass field operations (as applicable). Discuss landing errors and recovery.

- Flight:**
1. Takeoff, climb, cruise, aileron/rudder exercise
 2. Pattern entry
 3. Stabilized approaches
 4. Three point landings and go-arounds
 5. Taxi
 6. Takeoff and pattern operations

Lesson 3

Ground: Review pattern operations, takeoffs, and three point landings (aligned winds at five to 10 knots). Discuss landing errors and recovery.

- Flight:**
1. Ground, takeoff, climb, cruise, descent operations
 2. Pattern work, normal takeoffs, and three point landings
 3. Common landing errors and fixes, bounces, balloons, porpoise
 4. Go-arounds



aero enterprises

realize your full potential as a pilot

Gordonsville Municipal Airport | 540-850-0984 | dan@flyacro.us

Lesson 4

Ground: Review normal takeoff and three point landing operations. Crosswind takeoff and landing operations (maximum 7 knot crosswind conditions). Landing errors and recovery.

- Flight:
1. Crosswind takeoff operations
 2. Crosswind three point landing operations
 3. Landing error recovery
 4. Go-arounds

Lesson 5

Ground: Review three point landings. Wheel landing basics discussion. Review bounced landing recovery.

- Flight:
1. Takeoff and three point landings
 2. Takeoffs and wheel landings
 3. Landing error recovery
 4. Go-arounds

Lesson 6

Ground: Review ground ops, normal and crosswind takeoffs and landings. Review three point landing. Review wheel landings. Review go-arounds.

- Flight:
1. Normal and crosswind takeoffs
 2. Three point landings
 3. Wheel landings

NOTE: Lesson times will vary for each pilot. Depending on one's skill set and aptitude, lessons may be repeated. Average lesson time is 0.9 – 1.3 hours.