

(10) Emergency procedures and equipment malfunctions;

(11) Ground reference maneuvers;

(12) Approaches to a landing area with simulated engine malfunctions;

(13) Slips to a landing; and

(14) Go-arounds.

(e) *Maneuvers and procedures for supervised PIC flight training in a multiengine airplane.* A student pilot who is receiving training in a multiengine airplane, must receive and log supervised PIC flight training on the following maneuvers and procedures:

(1) Proper flight preparation procedures including preflight planning and preparation, powerplant operation, and aircraft systems;

(2) Taxiing or surface operations including runups;

(3) Takeoffs and landings including normal and crosswind;

(4) Straight and level flight and turns in both directions;

(5) Climbs and climbing turns;

(6) Airport traffic patterns including entry and departure procedures;

(7) Collision avoidance, windshear avoidance, and wake turbulence avoidance;

(8) Descents with and without turns using high and low drag configurations;

(9) Flight at various airspeeds from cruise to slow flight;

(10) Emergency procedures and equipment malfunctions;

(11) Ground reference maneuvers;

(12) Approaches to a landing area with simulated engine malfunctions; and

(13) Go-arounds.

(f) *Maneuvers and procedures for supervised PIC flight training in a helicopter.* A student pilot who is receiving training in a helicopter must receive and log supervised PIC flight training on the following maneuvers and procedures:

(1) Proper flight preparation procedures including preflight planning and preparation, powerplant operation, and aircraft systems;

(2) Taxiing or surface operations including runups;

(3) Takeoffs and landings including normal and crosswind;

(4) Straight and level flight and turns in both directions;

(5) Climbs and climbing turns;

(6) Airport traffic patterns including entry and departure procedures;

(7) Collision avoidance, windshear avoidance, and wake turbulence avoidance;

(8) Descents with and without turns;

(9) Flight at various airspeeds;

(10) Emergency procedures and equipment malfunctions;

(11) Ground reference maneuvers;

(12) Approaches to the landing area;

(13) Hovering and hovering turns;

(14) Go-arounds;

(15) Simulated emergency procedures, including autorotational descents with a power recovery and power recovery to a hover;

(16) Rapid decelerations; and

(17) Simulated one engine inoperative approaches and landings for multiengine helicopters.

(g) *Maneuvers and procedures for supervised PIC flight training in a gyroplane.* A student pilot who is receiving training in a gyroplane must receive and log supervised PIC flight training on the following maneuvers and procedures:

(1) Proper flight preparation procedures including preflight planning and preparation, powerplant operation, and aircraft systems;

(2) Taxiing or surface operations including runups;

(3) Takeoffs and landings including normal and crosswind;

(4) Straight and level flight and turns in both directions;

(5) Climbs and climbing turns;

(6) Airport traffic patterns including entry and departure procedures;

(7) Collision avoidance, windshear avoidance, and wake turbulence avoidance;

(8) Descents with and without turns;

(9) Flight at various airspeeds;

(10) Emergency procedures and equipment malfunctions;

(11) Ground reference maneuvers;

(12) Approaches to the landing area;

(13) High rates of descents with power on and with simulated power-off and recovery from those flight configurations;

(14) Go-arounds; and

(15) Simulated emergency procedures, including simulated power-off landings and simulated power failure during departures.

(h) *Maneuvers and procedures for supervised PIC flight training in a powered-lift.* A student pilot who is receiving training in a powered-lift must receive and log supervised PIC flight training on the following maneuvers and procedures:

(1) Proper flight preparation procedures, including preflight planning and preparation, powerplant operation, and aircraft systems;

(2) Taxiing or surface operations including runups;

(3) Takeoffs and landings including normal and crosswind;

(4) Straight and level flight and turns in both directions;

(5) Climbs and climbing turns;

(6) Airport traffic patterns including entry and departure procedures;

(7) Collision avoidance, windshear avoidance, and wake turbulence avoidance;

(8) Descents with and without turns;

(9) Flight at various airspeeds from cruise to slow flight;

(10) Emergency procedures and equipment malfunctions;

(11) Ground reference maneuvers;

(12) Approaches to a landing with simulated engine malfunctions;

(13) Go-arounds;

(14) Approaches to the landing area;

(15) Hovering and hovering turns; and

(16) For multiengine powered-lifts, simulated one engine inoperative approaches and landings.

(i) *Maneuvers and procedures for supervised PIC flight training in a nonpowered glider.* A student pilot who is receiving training in a nonpowered glider must receive and log supervised PIC flight training on the following maneuvers and procedures:

(1) Proper flight preparation procedures, including preflight planning, preparation, and aircraft systems;

(2) Launches, including normal and crosswind;

(3) Straight and level flight and turns in both directions;

(4) Airport traffic patterns including entry procedures;

(5) Collision avoidance, windshear avoidance, and wake turbulence avoidance;

(6) Descents with and without turns using high and low drag configurations;

(7) Flight at various airspeeds;

(8) Emergency procedures and equipment malfunctions;

(9) Ground reference maneuvers;

(10) Inspection of towline rigging and the review of signals and release procedures;

(11) Aerotows or ground tows;

(12) Procedures for disassembly and assembly of the glider;

(13) Stall entry, stall, and stall recovery;

(14) Straight glides, turns, and spirals;

(15) Landings, including normal and crosswind;

(16) Slips to a landing;

(17) Procedures and techniques for thermalling; and

(18) Emergency operations including towline break procedures.

(j) *Maneuvers and procedures for supervised PIC flight training in a powered glider.* A student pilot who is receiving training in a powered glider must receive and log supervised PIC flight training on the following maneuvers and procedures:

(1) Proper flight preparation procedures including preflight planning and preparation, powerplant operation, and aircraft systems;