

STUDENT COMPLIANCE MATRIX  
INITIAL SOLO

FAA

JAR-FCL

Aeronautical Knowledge	Satisfactorily complete a knowledge test administered by the authorized flight instructor in the following- Applicable sections of FAR 61 & 91; Local airspace rules & procedures; Flight characteristics and limitations of make & model. Endorsing IP must administer, correct and review all incorrect questions. Ref: 61.87(b)(1)&(2)
Flight Training Basic Requirements	Received and logged flight training in designated maneuvers and procedures for make and model aircraft. Demonstrate satisfactory proficiency and safety in the required operations to the authorized instructor. Ref: 61.87(c)(1)&(2)
Emergencies	Emergency procedures & equipment malfunctions; simulated engine failure approaches;. Ref: 61.87(d)(11)(13)
Airport Operations	Taxi, surface operations & runup; airport traffic patterns, entry & departure procedures; normal & crosswind takeoffs & landings; Ref: 61.87(d)(2)(3)(6)
General Airmanship	Straight & level flight, climbing & descending turns; descents in various configurations; flights at various speeds from cruise to slow flight; stall entries and recoveries from full and first indication of stall in various attitudes, power conditions & configurations; ground reference maneuvers; slips to landing; go arounds. Ref: 61.87(2)(4)(5)(8)(9)(10)(12)(14)(15)

Decision Making      Pre flight prep, planning; collision avoidance, windshear & wake turbulence avoidance. Ref: 61.87(d)(1)(7)

Aircraft Systems      Powerplant operation; aircraft systems. Ref: 61.87(d)(1)

CRITICAL SKILLS MATRIX  
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Flight Planning      Weight & balance; take off performance planning; landing performance planning; fuel consumption planning for local area operations; cross wind limitation; temperature limitations

Airspace      Class G, D, B airspace and operating limitations, equipments requirements, pilot requirements

Radio Navigation      VOR orientation; GPS "direct to"

Navigation      Use of and knowledge of VFR Terminal Aeronautical Charts; Navigation to airports within 25 nm

Communications      Air Traffic Control; CTAF Procedures

Emergencies      Obtaining ATC Assistance (RAPCON); Systems failures & malfunctions; engine failures & fires

Airport Operations      Operations at Controlled airports; pattern procedures & practices; surface operations; 3 types of go-arounds; avoidance of runway incursions; ATC light signals & loss of communications procedures

Airmanship

Altitude and airspeed control and stabilization; climbing, level and descending turns; stalls and spin avoidance; constant rate & airspeed descents; forward and side slips; cross wind compensation; safe taxi; proper parking and tiedown;

ENDORSEMENT MATRIX  
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Student Certificate Aircraft Make & Model, 61.87(n)(1)

Logbook

Endorsements

Aeronautical Knowledge Test & Ground Instruction,  
Ref. 61.87(b) & 61.189, AC61-65E  
App 1. #1; Aircraft  
Make & Model,  
Ref: 61.87(n)(2), AC 61-65E App 1.  
#2,4; Solo  
flights to airports within 25 nm,  
Ref 61.93(b)(1)(i-v), AC61-65E App.  
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Flight Instructor  
Limitation

Authorizing instructor must have given training in aircraft make and model and determined that student is proficient in all required maneuvers and procedures  
Ref: 61.87(p)