

STUDENT COMPLIANCE MATRIX
CROSS COUNTRY SOLO

FAA

JAR-FCL

Navigation	Aeronautical charts: pilotage, dead reckoning. Ref: 61.93(e)(1)
Performance	Aircraft performance charts related to cross country (cruise, climb, descent, fuel consumption) Ref: 61.93(e)(2); Best angle and best rate climbs. Ref: 61.93(e)(11)
Meteorology	Weather reports & forecasts; recognition of critical weather situations; estimating visibility in flight. Ref: 61.93(e)(3)
Emergencies	Engine Failures, Inflight Fires; Avionics Failures; Lost Procedures Ref: 61.93(e)(4)
Airport Operations	Traffic Pattern Procedures; departure, arrival, traffic pattern & approach. Ref: 61.93(e)(5); Crosswind, Short and soft field takeoffs and landings Ref: 61.93(e)(10)
General Airmanship	Collision avoidance, wake turbulence, & windshear avoidance. Ref 61.93(e)(6)
Decision Making	Recognition, avoidance, operational restrictions associated with hazardous terrain. Ref: 61.93(e)(7)

Aircraft Systems	Use of and operation of instruments & equipment installed in the aircraft. Ref: 61.93(e)(8)
Avionics	Use of radios for two way communications and navigation. Ref: 61.93(e)(9)
Instrument Flight	Control by sole reference to instruments, basic instrument maneuvers, radar vectors Ref: 61.93(e)(12)

STUDENT CRITICAL SKILLS MATRIX
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Flight Planning	Pilotage Navigation: true and magnetic courses; time/speed/distance; winds aloft data; wind correction angle; magnetic heading. Weather Data: METARS, TAF's Area Forecasts, NOTAMS; Use of AF/D (Airport Facility Directory)
Airspace	Class E, C, D, B airspace and operating limitations, equipments requirements, pilot requirements
Radio Navigation	VOR orientation and tracking; GPS "direct to"
Naviation Data	Use of and knowledge of VFR Sectional and Terminal Aeronautical Charts
Communications	Air Traffic Control, Flight Service Station (direct and remote); Flight Watch
Emergencies	"Lost" procedures; determining position, obtaining ATC Assistance (Center, RAPCON); Systems failures & malfunctions; engine failures & fires
Airport Operations	Operations at Controlled & Uncontrolled airports; pattern procedures & practices at Uncontrolled Airports; surface operations at Uncontrolled Airports; fueling procedures

STUDENT ENDORSEMENT MATRIX
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Student Certificate	Aircraft Category; Ref: 61.93(c)(1)
Logbook Endorsements	Aircraft Make & Model, Ref: 61.93(c)(2)(i); AC 61-65E App 1. # 6; Each Cross country. Ref: 61.93(c)(2)(ii); AC 61.65E App1. #7; Ground Instruction Given, Ref 61.189