



INSTRUMENT STUDY GUIDE



Required Equipment and Instruments 91.205

VFR DAY:

- Tachometer
- Oil Pressure Gauge
- Manifold Pressure Gauge
- Altimeter
- Temperature Gauge
- Oil Temperature Gauge
- Fuel Gauge
- Flotation Gear
- Landing Gear Position Lights
- Airspeed Indicator
- Anti-Collision Lights
- Magnetic Compass
- E.L.T.
- Seat Belt and Harness

IFR: VFR Day & Night (If flight is at night)

- Generator or Alternator
- Radio/Nav appropriate for flight
- Attitude Indicator
- Ball (Inclinometer)
- Clock (Second hand or digital)
- Altimeter (pressure sensitive)
- Rate of Turn Indicator
- Directional Gyro
- DME (Above FL 240)

VFR NIGHT:

- F Fuses
- L Landing Light (If for hire)
- A Anti-Collision Lights
- P Position Lights (nav lights)
- S Source of Electrical Power

Aircraft Inspections 91.409, 91.411, 91.143, 91.207

- AD's
- VOR (every 30 days)
- Inspections (100 hr and Annual)
- Altimeter (every 24 months)
- Transponder (every 24 months)
- ELT (every 12 months) (1 hr use or 1/3 battery life)
- Static System (every 24 months)

Special VFR 91.157

- 1 SM—Clear of Clouds
- Pilot is responsible for obstacle clearance
- Only within class B, C, D, and E surface areas
- Sunset to sunrise, must be IFR rated and the aircraft IFR equipped

Speed – Indication Errors

- Position errors:** Caused by static port and pitot tube sensing erroneous pressure due to slipstream and different pitch/bank and yaw attitude.
- Compressibility error:** Occurs at speeds above about 200kts, the air start to compress into the pitot tube and the airspeed indicator reads higher than normal.

Types of Altitude

- Indicated (Read off instrument)
- Pressure (Altitude above standard datum plane)
- Density (Pressure altitude corrected for non-standard temp)
- Absolute (Altitude above ground level)
- True (Altitude of aircraft above MSL)

Standard Rate Turn = Airspeed/10 + 5

Level off 10% of your VSI

Required Documents for Pilot

- Pilots License
- Government issued ID
- Medical Certificate
- Proof of Biennial Review

Compass Errors

- Variation
- Deviation
- Magnetic Dip
- Oscillation
- North and South Turning Errors
 - Undershoot
 - North
 - Overshoot
 - South
- Acceleration/Deceleration
 - Accelerate
 - North
 - Decelerate
 - South

Airport Lighting -- Aim Chapter 2

- REIL**—Runway end identifier lights (flashing strobes)
- Runway Centerline Lights**—White until the last 3000 ft of the runway, when they begin to alternate with red for the next 2000 ft, and are all red for the last 1000 ft.
- Runway Edge Light Systems**—White. IFR runways have amber lights for the last 2000 ft or half the runway, whichever is less. This is a caution zone. Ends of runway emit red light toward the runway to indicated the end of the runway.
 - HIRL—High intensity runway lights
 - MIRL—Medium intensity runway lights
 - LIRL—Low intensity runway lights
- Taxiway Centerline Lights**—Green
- Taxiway Edge Lights**—Blue

Personal Checklist Before Flight 8-1-1

- Illness
- Medication
- Stress
- Alcohol
- Fatigue (Chronic, Acute)
- Emotions

Preflight Action 91.103 and 91.167

- Notams
- Wx Report and Forecast
- Know ATC Delays
- Runway Lengths
- Alternative Airport
- Fuel Requirements
- Takeoff and Landing Distances

Light Gun Signals—91.125

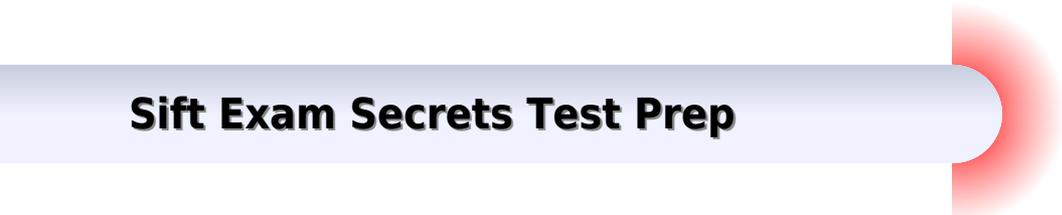
	GROUND	FLIGHT
Solid Green	Cleared for Takeoff	Cleared to Land
Flashing Green	Cleared to Taxi	Return for Landing
Solid Red	STOP	Give Way—Continue Circling
Flashing Red	Taxi Clear of Runway	Airport Unsafe—Do Not Land
Flashing White	Return to Starting Point	N/A
Alternating Red & Green	Exercise Extreme Caution	Exercise Extreme Caution
Acknowledge by moving ailerons or rudder in daylight or blinking landing or nav lights at night		

Beacons—Aim Ch. 2-1-8

- 24 – 30 flashes per minute
- White/Green—lighted land airport
- White/Yellow—lighted water airport

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