

BIENNIAL FLIGHT REVIEW – GROUND PHASE

ALL AIRCRAFT DOCUMENTS MAY BE USED FOR THIS REVIEW

This form is to be used as an aid in reviewing FAR Part 61 and 91 regulations, fundamental specifications, mechanical systems, and procedures for the aircraft that is to be used for the flight review. Not all questions may apply to the particular aircraft, in which case they should be overlooked. Utilize all available resources including aircraft documents, aircraft operator's manual, aircraft maintenance logbooks, performance charts, aircraft placards, and markings and listings to aid in this review. After completion of the review, a copy of this form will be furnished to the pilot for their records and future reference.

PILOT: _____

AIRCRAFT MAKE AND MODEL: _____

Fuel & Oil

What is the total fuel capacity? _____

What is the usable fuel capacity? _____

How many fuel tanks are there? _____

What is the usable capacity of each tank? _____

How many fuel drains are there and where are they located? _____

When should the fuel be sampled and checked? _____

What is the recommended fuel grade, and what is its color? _____

What is the recommended oil grade? _____

What is the minimum operating oil level? Maximum? _____

What is the normal operating oil level? _____

Airspeeds

What is the recommended rotation airspeed (V_R) for a normal takeoff? _____

What is the recommended rotation airspeed (V_R) for a short-field takeoff? _____

What is the recommended normal approach airspeed and configuration? _____

What is the recommended short-field approach airspeed and configuration? _____

What is the recommended soft-field approach airspeed and configuration? _____

What is the V_y airspeed and what will it achieve? _____

What is the V_x airspeed and what will it achieve? _____

What is the maneuvering airspeed (V_A) at maximum allowable gross weight? _____

When should V_A be used? _____

What is the maximum demonstrated crosswind component? _____

What is the published best glide airspeed ($V_{L/D \text{ MAX}}$) and what aircraft configuration is this airspeed based on? _____

What will flaps allow an aircraft to do? _____

What is the maximum landing gear extension speed (V_{LE})? _____

What is the maximum landing gear retraction speed (V_{LR})? _____

What is the maximum landing gear operating speed (V_{LO})? _____

Slow Flight & Stalls

Why is it necessary to maintain coordinated flight at speeds near the minimum controllable airspeed (MCA) of the aircraft? _____

Why is it necessary to maintain shallow bank angles when turning at airspeeds near the minimum controllable airspeed (MCA) of the aircraft? _____

What is the stall airspeed in the landing configuration (V_{SO})? _____

What is the stall airspeed in the landing configuration (V_{SO}), maximum gross takeoff weight, at 60° of bank? _____

What factors affect the stall airspeed of an aircraft? _____

What are the indications of an oncoming stall? _____

What is the recovery procedure for a stall? _____

What is the recommended spin recovery procedure? _____

Describe the procedure for a go-around _____

Aircraft Performance

What is the maximum allowable takeoff gross weight? _____

What is the maximum allowable landing gross weight? _____

How does density altitude affect aircraft performance? _____

What is the surface density altitude given the following associated conditions:

29.80 altimeter setting, 75° F surface temperature, 107 foot MSL airport elevation?

What is the takeoff ground roll distance given the following conditions:

Normal takeoff, no obstacle, flaps 0°, 85° F surface temperature, 1300 feet pressure altitude, maximum gross takeoff weight, departure on Runway 16, Wind 200° @ 20 knots, paved, level, dry runway? _____

What is the cruise power setting, true airspeed, and fuel consumption rate given the following conditions:

5° C outside air temperature, 7500 feet pressure altitude, 75% power, best power leaning? _____

What is the range of the aircraft under the following associated conditions:

4500 feet pressure altitude, 75% power, day VFR fuel reserve, best power leaning?

Emergency / Abnormal Procedures

What conditions are favorable for carburetor ice formation? _____

What is the indication that carburetor ice has formed? _____

How is carburetor ice remedied? _____

Describe the procedure for a "cold" start _____

Describe the procedure for a "hot" start _____

Describe the procedure for a "flooded" start _____

Describe the procedure for a power loss during the takeoff ground roll _____

Describe the procedure for a power loss after takeoff, but with usable runway remaining _____

Describe the procedure for a power loss after takeoff, but with no usable runway remaining _____

Describe the procedure for a power loss at cruising altitude _____

What would be the indications of an alternator or generator malfunction? _____

What would be the indications of a vacuum system malfunction? _____

What would be the indications of a pitot-static system malfunction? _____

If installed in the aircraft, where is the alternate static source located? _____

What would be the indications of a landing gear malfunction? _____

Describe the procedure for an emergency landing gear extension _____

Describe the procedure for a propeller overspeed condition _____

What is the Emergency radio frequency? _____

What is the transponder code for an Emergency? Lost Communication? _____

Federal Aviation Regulations

Who is responsible for making sure the aircraft is airworthy? _____

When are all occupants of the aircraft required to have their seatbelts fastened? _____

When must position lights be on? _____

What aircraft documents must be onboard the aircraft during flight? _____

What personal documents must you have on your person when acting as pilot in command? _____

What are the basic VFR visibility and cloud clearance minimums for flight in controlled airspace? _____

What is the minimum safe altitude over a congested area? _____

What is the minimum safe altitude over a non-congested area? _____

What are the appropriate VFR cruising altitudes and how are they determined? _____

What is the required day VFR fuel reserve? _____

What is the required night VFR fuel reserve? _____

What is the right of way rule for two aircraft approaching head-on? _____

What is the right of way rule for two aircraft converging at a 90° angle? _____

What sources can be used for weather information? _____

When is it permissible to deviate from an ATC clearance? _____

PILOT SIGNATURE: _____
PILOT CERTIFICATE LEVEL AND #: _____
PILOT MEDICAL CLASS, DATE, AND #: _____
INSTRUCTOR SIGNATURE: _____
INSTRUCTOR CERTIFICATE #, TYPE, AND EXPIRATION: _____
DATE OF FLIGHT REVIEW GROUND PORTION: _____
DATE OF FLIGHT REVIEW FLIGHT PORTION: _____
AIRCRAFT TYPE AND REGISTRATION #: _____

(Photocopy Below: 1.) Photo I.D., 2.) Pilot License, 3.) Medical Certificate)