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Name/Employee #	Date
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FBO/ASO Location	Score

This exercise contains completion, matching, multiple choice and true/false questions. These questions are derived from material presented in both the video tape and the corresponding section of the E.C.R.G. Read each question carefully and review your answers before returning the test to your instructor.

**TURBOPROP DEFINITION**

1. \_\_\_\_\_ (True or False) A turbine engine operates by taking in air, compressing it through a series of spinning turbine blades, mixing the air with jet fuel and igniting it.
2. By definition, a "turboprop" is a turbine or jet engine which drives a \_\_\_\_\_.
3. Turboprop engines are designed to operate on \_\_\_\_\_ fuel.

**TURBINE ENGINE FUEL AND OIL PRODUCTS**

4. \_\_\_\_\_ Turbine fuel has a distinctive kerosene smell and is \_\_\_\_\_ to \_\_\_\_\_ in color.
  - a. clear to brown
  - b. clear to straw
  - c. clear to gray
5. \_\_\_\_\_ Jet refuelers and jet fuel storage systems are identified with:
  - a. black letters on a white background
  - b. grey letters on a black background
  - c. white letters on a black background
6. Jet refuelers are required to be identified with a specific Department of Transportation identification number. This identification number is \_\_\_\_\_.
7. Accurate weight calculations are critical for ensuring safe flight operations. The approximate weight for Jet-A is \_\_\_\_\_ pounds per U.S. gallon.
8. The pilot has requested 2000 pounds of jet fuel to be uplifted into the aircraft. Approximately how many gallons will you load into this aircraft? \_\_\_\_\_.
9. It may be necessary to inject an additive during refueling to provide protection against the formation of \_\_\_\_\_ in the fuel and fuel lines.
10. When injecting jet fuel additive manually, precaution must be taken to ensure the proper mixture. List the correct procedure when using the aerosol can method.
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  - d. \_\_\_\_\_



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11. Turbine powered aircraft utilize a specialized type of oil which has a \_\_\_\_\_ (thick/thin) viscosity and is referred to as a \_\_\_\_\_ (synthetic/mineral) based oil.

**JET REFUELERS AND SERVICING PRECAUTIONS**

12. The over wing nozzle used for the refueling of turbine aircraft and designed to prevent “misfueling” incidents is called a “\_\_\_\_”-\_\_\_\_\_ nozzle.
13. Whenever nozzles are not in use, they should be protected with \_\_\_\_\_.
14. Single point refueling is utilized for the following reasons:
- a. increased efficiency through the use of lower fuel pressure
  - b. increased efficiency through the use of increased fuel flow rates
  - c. increased efficiency through the use of decreased fuel flow rates
15. \_\_\_\_\_ (True or False) The maximum allowable pressure for single point operations is 55 p.s.i. (Pounds-per-Square-Inch).
16. Because single point flow valves remain open during refueling operations, a separate hand held device for the quick shut-off of fuel is required. This device is called a \_\_\_\_\_ control.
17. \_\_\_\_\_ The preferred positioning of the refueler for turboprop operations is:
- a. behind the aircraft, parallel to the wing and no closer than ten feet from the aircraft
  - b. front of the aircraft, parallel to the wing and no closer than five feet from the aircraft
  - c. front of the aircraft, parallel to the wing and no closer than ten feet from the aircraft
18. \_\_\_\_\_ If you come upon an aircraft that is leaning heavily to one side and appears to be “unbalanced”, you should:
- a. open the filler cap on the higher wing and begin refueling
  - b. notify your supervisor and the flight crew immediately
  - c. open the higher wing filler cap followed by the lower wing cap and begin refueling
19. Refuel nozzles should not be inserted more than \_\_\_\_\_ inches into any fuel tank.

**TURBOPROP AIRCRAFT REVIEW**

20. \_\_\_\_\_ (True or False) The TBM-700 aircraft, a single engine turboprop, refuels over-wing and has two fuel fillers, one on each wing.
21. Match the following Beechcraft aircraft with their correct filler locations:
- \_\_\_\_\_ a. King Air 200 1. mains-outboard, auxiliaries-inboard
  - \_\_\_\_\_ b. Starship 2. mains-inboard, no auxiliaries
  - \_\_\_\_\_ c. King Air 90A 3. mains-nacelles, auxiliaries-outboard
  - \_\_\_\_\_ d. King Air 90F
22. Cessna manufactures three turboprop aircraft. Correctly match each aircraft with it’s description and fuel filler locations.
- \_\_\_\_\_ a. Conquest I 1. twin-engine, 2 fillers, one on each wing
  - \_\_\_\_\_ b. Conquest II 2. single-engine, 2 fillers, one on each wing

