

---

# Preflight Inspection

## Aviation Instructor's Lesson Plan

---

**OBJECTIVE** This lesson will gain knowledge of the elements related to preflight inspection. This shall include which items must be inspected, the reasons for checking each item, and how to detect possible defects.

**ELEMENTS**

- Reasons for the preflight inspection, items that should be inspected, and how defects are detected
- Importance of using the appropriate checklist
- How to determine fuel and oil quantity and contamination
- Detection of fuel, oil, and hydraulic leaks
- Inspection of the oxygen system, including supply and proper operation (if applicable).
- Inspection of the flight controls
- Detection of visible structural damage
- Removal of tie-downs, control locks, and wheel chocks
- Removal of ice and frost
- Importance of the proper loading and securing of baggage, cargo, and equipment
- Use of sound judgment in determining whether the airplane is airworthy and in condition for safe flight

**COMMON ERRORS**

- Failure to use or the improper use of a checklist
- Allowing distractions to interrupt the visual inspection
- Inability to recognize discrepancies to determine airworthiness
- Failure to ensure servicing with the proper fuel and oil
- Failure to ensure proper loading and securing of baggage, cargo, and equipment

**REFERENCE**

***The Flight Instructor's Kit***

- Area of Operation 2, Task D: Airplane Controls and Control Surfaces
- Area of Operation 2, Task E: Airplane Systems and Flight Instruments
- Area of Operation 7, Appendix E: Checklist Usage

**COMPLETION STANDARDS** The student should be able to inspect the airplane with reference to an appropriate checklist and verify that it is in condition for safe flight.