

References: FAA-S-8081-4, AFM/POH

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| Objectives | <ul style="list-style-type: none">▪ The student should develop knowledge of the elements related to ensuring proper operation of instruments and equipment and reasons for making a written record of improper operation. |
| Elements | <ul style="list-style-type: none">▪ General▪ Documenting Malfunctions |
| Schedule | <ul style="list-style-type: none">▪ Review lesson objectives▪ Review lesson material▪ Conclusion & Review |
| Equipment | <ul style="list-style-type: none">▪ White Board / Markers▪ References |
| CFI Actions | <ul style="list-style-type: none">▪ Present lesson▪ Use teaching aids▪ Ask/ answer questions |
| Student Actions | <ul style="list-style-type: none">▪ Participate in discussion▪ Take notes▪ Ask / answer questions |
| Completion Standards | <ul style="list-style-type: none">▪ The student understands how to check the instruments and equipment for proper functionality and when to make a written record of improper operation. |

Additional Notes: _____

CE = Common Error

Introduction

Overview

Review objectives / Elements

What

Properly checking and documenting improper/faulty instrument operation

Why

safety. Checking instruments allows the pilot to make a record of any issue found. The next pilot can be made aware of the problem, maintenance can be performed prior to the next flight

How

General

- **It is extremely important to recognize and record any faulty instruments**
 - Especially in flight in IMC where you need these instruments to be in prime working condition
- **Check all instruments and their power sources for proper operation**
 - Ensure HSI, Rate of turn, Attitude, VSI, magnetic compass, and the ball all function properly by checking their function in a turn
- **Note equipment not functioning properly and record / report the malfunctions**

Documenting Malfunctions

- **Document all malfunctions in a maintenance log**
 - Keeps a history of all recorded issues in one place that anyone can access
 - Different flight schools, owners, etc. may have different ways of documenting malfunctions
- **Alerts other pilots of potential issues prior to flying**
 - Pilots can note trends, and see what has / hasn't been fixed before taking the aircraft
 - Especially important for operations like flight schools where numerous pilots use the same aircraft
- **Helps to get the issues fixed**
 - Safety is #1, if you don't report an issue, the next person to fly has to deal with it
 - Don't leave problems for the next person
- **Significantly increases safety and situational awareness**

Conclusion & Review

Conclusion

Review main points

Review

1. Importance of noting instrument and navigation equipment for improper operation
2. Reasons for making a written record of improper operation or failure and/or calibration of instruments prior to next IFR flight