EO C331.02 – READ PITOT STATIC INSTRUMENTS

1. **Performance.** Read Pitot Static Instruments.

2. **Conditions**

   a. Given:

      (1) Working model of an airspeed indicator (ASI),

      (2) Working model of an altimeter,

      (3) Working model of a vertical speed indicator (VSI),

      (4) Supervision, and

      (5) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Classroom or training area large enough to accommodate the entire group.

3. **Standard.** The cadet shall read pitot static instruments, to include:

   a. an ASI,

   b. an altimeter, and

   c. a VSI.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Explain that the basic instruments of an aircraft rely on the pitot source and the static port as sources of information, to include: a. pitot and static sources provide information for the ASI, b. static port provides information for the altimeter, and c. static port provides information for the VSI.	Interactive Lecture	10 min	C3-116 (p. 39) C3-139
TP2	Explain how to read an ASI, to include: a. normal operating range, b. cautionary range, c. never exceed speed, and d. units of measurement.	Interactive Lecture	10 min	C3-116 (p. 43) C3-139
TP3	Explain how to read an altimeter, to include: a. units of measurement, b. pressure sub-scale, c. field elevation versus pressure altitude, and d. height above sea level (ASL)/above ground level (AGL).	Interactive Lecture	10 min	C3-116 (p. 40) C3-139

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TP	Description	Method	Time	Ref
TP4	Explain how to read a VSI, to include: a. units of measurement, and b. positive/negative rates of climb.	Interactive Lecture	10 min	C3-116 (p. 44) C3-139
TP5	Have the cadet read pitot static instruments, to include: a. ASI, b. altimeter, and c. VSI.	In-Class Activity	10 min	

5. **Time**

a.	Introduction/Conclusion:	10 min
b.	Interactive Lecture:	40 min
c.	In-Class Activity:	10 min
d.	Total:	60 min

6. **Substantiation**

a. An interactive lecture was chosen for TPs 1–4 to introduce pitot static instruments.

b. An in-class activity was chosen for TP 5 as an interactive way to confirm the cadets' comprehension of pitot static instruments.

7. **References**

a. C3-116 (ISBN 0-9680390-5-7) MacDonald, A. F., & Peppler, I. L. (2000). *From the Ground Up: Millennium Edition*. Ottawa, ON: Aviation Publishers Co. Limited.

b. C3-139 (ISBN 0-7715511-5-0) Transport Canada. (1999). *Flight Training Manual 4th Edition Revised*. Ottawa, ON: Transport Canada.

8. **Training Aids**

a. Presentation aids (eg, whiteboard/flip chart/OHP/multimedia projector) appropriate for the classroom/training area,

b. Working model of an ASI,

c. Working model of an altimeter, and

d. Working model of a VSI.

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9. **Learning Aids**
    a. Diagram of an ASI,
    b. Diagram of an altimeter, and
    c. Diagram of a VSI.
10. **Test Details.** N/A.
11. **Remarks.** N/A.

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