EO M437.02 – DESCRIBE THE MAGNETIC COMPASS

1. **Performance**: Describe the Magnetic Compass
2. **Conditions**:
   a. Given:
      (1) Supervision, and
      (2) Assistance as required.
   b. Denied: Nil.
   c. Environmental: Classroom or training area large enough to accommodate the entire group.
3. **Standard**: The cadet shall describe the magnetic compass, to include:
   a. the Earth's magnetism,
   b. the main parts of the compass,
   c. variation, and
   d. compass errors.
4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Describe the Earth's magnetism.	Interactive Lecture	5 min	C3-116 (pp. 177–178)
TP2	Describe the main parts of the magnetic compass.	Interactive Lecture	5 min	C3-116 (p. 179)
TP3	Describe variation.	Interactive Lecture	5 min	C3-116 (pp. 178–179)
TP4	Describe compass errors.	Interactive Lecture	10 min	C3-116 (pp. 179–182)

5. **Time**:

a.	Introduction / Conclusion:	5 min
b.	Interactive Lecture:	25 min
c.	Total:	30 min

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Verify against the official publication.

6. **Substantiation**: An interactive lecture was chosen for this lesson to clarify, emphasize, and summarize the magnetic compass.

7. **References**: 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.

8. **Training Aids**:

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

   b. Examples of magnetic compasses.

9. **Learning Aids**:

   a. Pen / pencil, and

   b. Magnetic Headings worksheet.

10. **Test Details**: This EO is assessed IAW Chapter 3, Annex B, Aviation Subjects–Combined Assessment PC.

11. **Remarks**: Cadets who are qualified Advanced Aviation may assist with this instruction.

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