EO M432.03 – DESCRIBE ENGINE INSTRUMENTS

1. **Performance**: Describe Engine Instruments
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 engine instruments, to include:
   a. oil pressure gauge,
   b. oil temperature gauge,
   c. cylinder head temperature gauge,
   d. tachometer, and
   e. manifold pressure gauge.
4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Describe the oil pressure and oil temperature gauges.	Interactive Lecture	5 min	C3-116 (pp. 75–76)
TP2	Describe the cylinder head temperature gauge.	Interactive Lecture	5 min	C3-116 (p. 76)
TP3	Describe the tachometer.	Interactive Lecture	5 min	C3-116 (pp. 76–77)
TP4	Describe the manifold pressure gauge.	Interactive Lecture	5 min	C3-116 (pp. 77–79)
TP5	Conduct an in-class activity to review aero engines.	In-Class Activity	5 min	

5. **Time**:

a.	Introduction / Conclusion:	5 min
b.	Interactive Lecture:	20 min
c.	In-Class Activity:	5 min
d.	Total:	30 min

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Verify against the official publication.

6. **Substantiation**:

   a. An interactive lecture was chosen for TPs 1–4 to clarify, emphasize, and summarize engine instruments.

   b. An in-class activity was chosen for TP 5 as it is an interactive way to reinforce the topic and confirm the cadets' comprehension of aero engine systems.

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

9. **Learning Aids**:

   a. Pen / pencil, and

   b. Aero Engine Review worksheet.

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

11. **Remarks**: Nil.

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