EO M231.04 – DESCRIBE THE AXIAL MOVEMENTS OF AN AIRCRAFT

1. **Performance**: Describe the Axial Movements of an Aircraft

2. **Conditions**:

   a. Given:

      (1) Supervision; and

      (2) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Suitable classroom facilities or training area large enough to accommodate the entire group.

3. **Standard**: In accordance with specified references, the cadet shall describe the axial movements of an aircraft, to include:

   a. the three axes of an aircraft; and

   b. the three corresponding axial movements.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Explain that aircraft operate in a three-dimensional space. Identify the three axes of aircraft movement, to include: a. the longitudinal axis; b. the lateral axis; and c. the vertical axis.	Interactive Lecture	5 min	C3-116 (p. 30)
TP2	Using a model aircraft, describe the three movements that aircraft make around their three axes, to include: a. roll about the longitudinal axis; b. pitch about the lateral axis; and c. yaw about the vertical axis.	Interactive Lecture	10 min	C3-116 (p. 30) C3-017 (p. 22)
TP3	Discuss movement that may take place about multiple axes simultaneously in a turn.	Group Discussion	5 min	C3-116 (pp. 34-35)
TP4	Have the cadets brainstorm how aircraft flight might be controlled. **Note:** Explain that the aircraft surfaces which control these movements will be covered in the next lesson.	Group Discussion	5 min	C3-116 (pp. 14–16)

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5. **Time**:

a.	Introduction / Conclusion:	5 min
b.	Interactive Lecture:	15 min
c.	Group Discussion:	10 min
d.	Total:	30 min

6. **Substantiation**:

   a. An interactive lecture was chosen for TP1 and TP2 to introduce the subject of axial movement of an aircraft and give an overview of it.

   b. A group discussion was chosen for TP3 and TP4 as it allows the cadets to interact with their peers and share their knowledge, experiences, opinions, and feelings about axial movement of an aircraft.

7. **References**:

   a. C3-017 (ISBN 1-895569-23-0) Schmidt, N. (1998). *Fabulous Paper Gliders.* New York, NY: Sterling Publishing.

   b. C3-116 A-CR-CCP-263/PT-001 (ISBN 0-9680390-5-7) MacDonald, A. F. and Peppler, I. L. (2000). *From the Ground Up: Millennium Edition.* Ottawa, ON: Aviation Publishers Co. Limited.

8. **Training Aids**:

   a. Presentation aids (e.g. whiteboard/flipchart/OHP) appropriate for the classroom/training area; and

   b. Model of a light fixed-wing aircraft with wing struts, fixed gear and control surface detail.

9. **Learning Aids**: N/A.

10. **Test Details**: N/A.

11. **Remarks**: N/A.

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