EO M130.02 – DESCRIBE THE MAIN COMPONENTS OF AN AIRPLANE

1. **Performance**: Describe the Main Components of an Airplane
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 cadets shall identify and describe the five major components of an airplane, to include:
   a. fuselage,
   b. wings,
   c. empennage,
   d. landing gear, and
   e. propulsion system.
4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Define aircraft and airplane. Describe the fuselage.	Interactive Lecture	5 min	A3-001 (p. 9)
TP2	Describe the wings, to include: a. the wing root; b. the wing tip; c. the leading edge; d. the trailing edge; e. ailerons; and f. flaps.	Interactive Lecture	5 min	A3-001 (pp. 10–11)
TP3	Describe the empennage, to include: a. horizontal stabilizer; b. elevator; c. vertical stabilizer; and d. rudder.	Interactive Lecture	5 min	A3-001 (p. 11)
TP4	Describe the landing gear.	Interactive Lecture	5 min	A3-001 (pp. 12–13)

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TP	Description	Method	Time	Refs
TP5	Describe the propulsion system.	Interactive Lecture	5 min	A3-001 (p. 12)

5. **Time**:

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

6. **Substantiation**: An interactive lecture was chosen for this lesson as it allows the cadets to identify and describe the major components of an airplane and it generates interest in the subject.

7. **References**:

a. A3-001 A-CR-CCP-263/PT-001 *From the ground up: Millennium edition*. (2000). Ottawa, ON: Aviation Publishers Co. Limited.

b. C3-346 Bush-Planes.com. *Best bush planes: flying*. Retrieved December 14, 2011 from http://www.bush-planes.com/index.html

c. C3-347 Free Online Private Pilot Ground School. (2007). *Private Pilot Ground School*. Retrieved December 14, 2011 from http://www.free-online-private-pilot-ground-school.com/aircraft-structure.html

d. C3-348 FAA-Aircraft-Certification.com. *Your complete guide to FAA aircraft certification*. (2007). Retrieved October 17, 2011, from http://www.faa-aircraft-certification.com/faa-definitions.html#H

8. **Training Aids**: Presentation aids (eg, whiteboards / flipcharts / OHP / multimedia projector) appropriate for the training area.

9. **Learning Aids**: Puzzles of aircraft parts.

10. **Test Details**: Nil.

11. **Remarks**: Nil.

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