EO C370.02 – DESCRIBE MATERIALS USED IN AIRCRAFT CONSTRUCTION

1. **Performance.** Describe Materials Used in Aircraft Construction.

2. **Conditions**

   a. Given:

      (1) Supervision, and

      (2) 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 describe materials used in aircraft construction, to include:

   a. wood,

   b. fabric,

   c. composites, and

   d. metals.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Describe wood and fabric used in aircraft construction, to include: a. species of wood, b. assessment of wood, c. organic fabric, and d. inorganic fabric.	Interactive Lecture	5 min	C3-136 (pp. 3-1 to 3-16)
TP2	Describe composites used in aircraft construction, to include: a. fibreglass, b. aramid, c. carbon/graphite, and d. ceramic.	Interactive Lecture	15 min	C3-136 (pp. 3-22 to 3-27)
TP3	Describe metals used in aircraft construction, to include: a. aluminum, b. Alclad®, c. magnesium, d. titanium, and e. stainless steel.	Interactive Lecture	5 min	C3-136 (pp. 2-1 to 2-15)

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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 to review, clarify, emphasize and summarize materials used in aircraft construction.

7. **References.** C3-136 (ISBN 0-88487-207-6) Sanderson Training Systems. (2001). *A&P Technician Airframe Textbook*. Englewood, CO: Jeppesen Sanderson Inc.

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

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

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

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

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