EO C470.02 – DISCUSS AIRCRAFT ASSEMBLY

1. **Performance**: Discuss Aircraft Assembly

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 discuss aircraft assembly, to include:

   a. methods of assembly, and

   b. assembly areas.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Describe different methods of assembly of components used by: a. small manufacturers, and b. large manufacturers.	Interactive Lecture	15 min	C3-105 C3-136 (pp. 1-39 to 1-51)
TP2	Discuss manufacturers' assembly areas, to include: a. a small manufacturer's shop, and b. a large manufacturer's assembly line.	Interactive Lecture	10 min	C3-105 C3-136 (pp. 1-39 to 1-50)

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 introduce aspects of aircraft assembly methods and give an overview of them.

7. **References**:

   a. C3-105 Brisley, T., & Pascaud, S. (Executive Producer), & Bowie, B. (Writer / Director) (2003). *World's biggest airliner: The Airbus A380* [Motion Picture]. United States: The Learning Channel.

   b. C3-136 ISBN 0-88487-207-6 Sanderson Training Systems. (2001). *A&P technician airframe textbook*. Englewood, CO: Jeppesen Sanderson Inc.

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8. **Training Aids**:

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

   b. DVD *World's biggest airliner: The Airbus A380* [Motion Picture]. Brisley, T., Pascaud, S. (Executive Producer), & Bowie, B. (Writer / Director) (2003). United States: The Learning Channel.

9. **Learning Aids**: Nil.

10. **Test Details**: Nil.

11. **Remarks**:

   a. The cadets may have previously viewed The World's Biggest Airliner: The Airbus A380 if EO C270.04 was selected in Proficiency Level Two. This lesson focuses and expands on the assembly of aircraft.

   b. Cadets who are qualified Advanced Aviation Technology – Aircraft Manufacturing and Maintenance may be able to assist with this lesson.

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