EO C370.03 – IDENTIFY BASIC POWER TOOLS USED IN AIRCRAFT MANUFACTURING AND MAINTENANCE

1. **Performance.** Identify Basic Power Tools Used in Aircraft Manufacturing and Maintenance.

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 identify basic power tools used in aircraft manufacturing and maintenance, to include:

   a. power hand tools,

   b. shop equipment, and

   c. fastening tools.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Describe the characteristics and methods of application for power hand tools used with aircraft, to include: a. drill, b. reciprocating saw, and c. sander.	Interactive Lecture	5 min	C3-136 (pp. 2-19 to 2-24)
TP2	Describe the characteristics and methods of application for shop equipment used with aircraft, to include: a. forming tools, to include: 1. bar folding machine, 2. cornice brake, and 3. slip roll former; b. compound curve tools, to include: 1. mechanical compound curve tools, and 2. manual compound curve tools; and c. cutting tools, to include: 1. squaring shear, 2. scroll shear, 3. band saw, 4. drill press,	Interactive Lecture	5 min	C3-136 (pp. 2-22 to 2-61)

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TP	Description	Method	Time	Ref
	5. lathe, and 6. rotary punch press.			
TP3	Describe the characteristics and methods of application for fastening tools and associated fasteners used with aircraft, to include: a. rivet gun, b. rivet cutter, c. bucking bar, d. squeezer, and e. rivet.	Interactive Lecture	5 min	C3-137 (pp. 8-1 to 8-38)
TP4	Conduct a tool identification activity.	In-Class Activity	10 min	

5. **Time**

a.	Introduction/Conclusion:	5 min
b.	Interactive Lecture:	15 min
c.	In-Class Activity:	10 min
d.	Total:	30 min

6. **Substantiation**

a. An interactive lecture was chosen for TPs 1–3 to identify basic power tools used in aircraft manufacturing and maintenance and to give an overview of them.

b. An in-class activity was chosen for TP 4 as it is an interactive way to confirm the cadets' comprehension of the material.

7. **References**

a. C3-136 (ISBN 0-88487-205-6) Sanderson Training Systems. (2001). *A&P Technician Airframe Textbook*. Englewood, CO: Jeppesen Sanderson Inc.

b. C3-137 (ISBN 0-88487-203-3) Sanderson Training Systems. (2000). *A&P Technician General Textbook*. Englewood, CO: Jeppesen Sanderson Inc.

8. **Training Aids**

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

b. Handout of pictures of shop tools with and without titles.

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9. **Learning Aids.** N/A.
10. **Test Details.** N/A.
11. **Remarks.** N/A.

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