EO M270.01 – IDENTIFY ASPECTS OF AIRCRAFT MANUFACTURING

1. **Performance**: Identify Aspects of Aircraft Manufacturing

2. **Conditions**:

   a. Given:

      (1) Career information cards;

      (2) Supervision; and

      (3) 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 identify aspects of aircraft manufacturing, to include:

   a. aircraft systems;

   b. the materials used in aircraft manufacturing; and

   c. careers within the aircraft manufacturing industry.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Identify aircraft systems, to include: a. aircraft instrument systems; b. airframe electrical systems; c. hydraulic and pneumatic power systems; d. aircraft landing gear systems; and e. aircraft fuel systems.	Interactive Lecture	15 min	C3-108 (p. 7-1, p. 8-1, p. 9-1, p. 11-1, p. 12-1, p. 15-1)
TP2	Identify the following materials used in aircraft manufacturing: a. non-ferrous metals, to include: 1. aluminum and its alloys; 2. titanium; 3. nickel; and 4. cooper; and b. composite fibres, to include: 1. graphite; 2. kevlar; and 3. fibreglass.	Interactive Lecture	15 min	C3-108 (p. 7-1)

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TP	Description	Method	Time	Refs
TP3	Discuss careers within the aircraft manufacturing industry, to include: a. aircraft interior technician; b. aircraft maintenance engineer category "E" (avionics); c. aircraft maintenance engineer category "M" (maintenance); d. aircraft maintenance engineer category "S" (structures); e. aircraft mechanical component technician; and f. aircraft gas turbine technician.	Group Discussion	20 min	C3-107 C3-109

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Interactive Lecture:	30 min
c.	Group Discussion:	20 min
d.	Total:	60 min

6. **Substantiation**:

   a. An interactive lecture was chosen for TP1 and TP2 to introduce aircraft manufacturing and generate interest.

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

7. **References**:

   a. C3-107 British Columbia Institute of Technology. (2007). *Programs and Courses.* Retrieved 8 February 2007, from http://www.bcit.ca/study/programs/.

   b. C3-108 (ISBN 0 88487 203 3) Jeppesen Sanderson Training Products. (2000). *A&P Technician: General.* Englewood, CO: Jeppesen Sanderson Inc.

   c. C3-109 (ISBN 1 894777 00 X) Canadian Aviation Maintenance Council (CAMC). (2002). *Aviation Maintenance Orientation Program.* Ottawa, ON: CAMC.

8. **Training Aids**:

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

   b. Career information sheets.

9. **Learning Aids**: Career information sheets.

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

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

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