EO C432.02 – DESCRIBE TURBOCHARGING AND SUPERCHARGING SYSTEMS

1. **Performance**: Describe Turbocharging and Supercharging Systems

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 describe turbocharging and supercharging systems.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Describe turbocharging.	Interactive Lecture	10 min	C3-116 (pp. 54–55)
TP2	Describe supercharging.	Interactive Lecture	5 min	C3-116 (pp. 55–56)
TP3	Conduct an in-class activity to confirm the cadets' comprehension of turbocharging and supercharging.	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 and 2 to clarify, emphasize, and summarize turbocharging and supercharging systems.

   b. An in-class activity was chosen for TP 3 to confirm the cadets' comprehension of turbocharging and supercharging.

7. **References**: C3-116 ISBN 0-9680390-5-7 MacDonald, A. F., & Peppler, I. L. (2000). *From the ground up: Millennium edition*. Ottawa, ON: Aviation Publishers Co. Limited.

8. **Training Aids**:

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

   b. Turbocharging and Supercharging Worksheet, and

   c. Turbocharging and Supercharging Worksheet Answer Key.

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Verify against the official publication.

9. **Learning Aids**:
    a. Pen / pencil, and
    b. Turbocharging and Supercharging Worksheet.
10. **Test Details**: Nil.
11. **Remarks**: Cadets who are qualified Advanced Aviation may assist with this instruction.

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