EO C440.02 – LAUNCH A SMALL MODEL ROCKET

1. **Performance**: Launch a Small Model Rocket
2. **Conditions**:
   a. Given:
      (1) Cement for plastic models,
      (2) No. 11 hobby knife,
      (3) Pencil,
      (4) Scissors,
      (5) Small model rocket kit,
      (6) Supervision, and
      (7) Assistance as required.
   b. Denied: Nil.
   c. Environmental:
      (1) Classroom or training area large enough to accommodate the entire group, and
      (2) Outdoor training area IAW Canadian Association of Rocketry (CAR) standards.
3. **Standard**: The cadet shall:
   a. construct a small model rocket;
   b. assist in the set-up of the rocket launch site; and
   c. launch a small model rocket.
4. **Teaching Points**: Have the cadet, as a member of a pair:
   a. assemble a small model rocket;
   b. assist in the set-up of the rocket launch site; and
   c. launch a small model rocket.
5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Practical Activity:	80 min
c.	Total:	90 min

6. **Substantiation**: A practical activity was chosen for this lesson as it is an interactive way to introduce the cadets to constructing and launching model rockets in a safe, controlled environment.
7. **References**:
   a. C3-162 Beach, T. (1993). *Model rocketry technical manual*. Retrieved October 10, 2007, from http://www.estesrockets.com/assets/downloads/roecketrytechniques.pdf

Unofficial convenience copy of A-CR-CCP-804/PG-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-804-PG-001/A-CR-CCP-804-PG-001.pdf.
Verify against the official publication.

b. C3-163 Cannon, R. L. (1999). *A learning guide for model rocket launch systems*. Retrieved October 10, 2007, from http://www.estesrockets.com/assets/downloads/launchsystemguide.pdf

c. C3-259 ISBN 978-0-471-47242-1 Stine, G. H. (2004). *Handbook of model rocketry*. Toronto, ON: John Wiley & Sons.

8. **Training Aids**:

a. Launch tower for a model rocket,

b. Launch controller for a model rocket,

c. 80 m of safety tape,

d. 18 modular tent pegs or a suitable substitute,

e. Safety glasses,

f. Voltmeter,

g. Pliers,

h. Screwdriver, and

i. Electrical tape.

9. **Learning Aids**:

a. Safety glasses,

b. Cement for plastic models,

c. No. 11 hobby knife,

d. Pencil, Scissors, and

e. Small model rocket kit.

10. **Test Details**: Nil.

11. **Remarks**:

a. EO C440.01 (Describe Model Rocketry) must also be selected and delivered prior to this lesson.

b. Cadets who are qualified Advanced Aerospace may assist with this instruction.

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