EO C440.05 – DESCRIBE ROBOTICS

1. **Performance**: Describe Robotics
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 robotics, to include:
   a. types of robots, and
   b. robotic applications.
4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Describe types of robots, to include: a. autonomous systems, and b. remote-controlled systems.	Interactive Lecture	10 min	C3-292
TP2	Describe robotic applications, to include: a. industrial fabrication, to include: 1. machining, 2. cutting, 3. assembling, and 4. welding, b. exploration, c. space, d. emergency services, and e. military.	Interactive Lecture	15 min	C3-292

5. **Time**:

a.	Introduction:	5 min
b.	Interactive Lecture:	25 min
c.	Total:	30 min

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.

6. **Substantiation**: An interactive lecture was chosen for this lesson to give the cadets an overview of robotics and to generate interest in the subject.

7. **References**: C3-292 NASA. (2003). *Rover ranch: K-12 experiments in robotic software*. Retrieved November 20, 2008, from http://prime.jsc.nasa.gov/ROV/

8. **Training Aids**: Presentation aids (eg, whiteboard / flip chart / OHP / multimedia projector) appropriate for the classroom / training area.

9. **Learning Aids**: Nil.

10. **Test Details**: Nil.

11. **Remarks**: Cadets who are qualified Advanced Aerospace may assist with this instruction.

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.