

**Evaluation:**

<u>Performance measures</u>	<u>Results</u>	
1. List at least 5 safety rules for lightning protection	P	F
2. Explain the proper routing and secure of wires and cables	P	F
3. Explain how to properly locate antenna systems to maximize safety and minimize RF exposure and EMI	P	F
4. Explain how to properly ground communications equipment	P	F

Student must receive a pass on all performance measures to qualify in this task. If the individual fails any measure, show what was done wrong and how to do it correctly.

**L-0010**  
**COMMUNICATIONS SAFETY PROCEDURES**

**CONDITIONS**

You are a mission radio operator at a search/DR base.

**OBJECTIVES**

Explain the safety exposures and mitigation factors involved in operating a mission radio system.

**TRAINING AND EVALUATION**

**Training Information Outline**

1. A Mission Radio Operator is required to maintain a safe environment as part of the operator tasks.
2. You should be able to demonstrate the following skills:
  - a) List at least 5 safety rules for lightning protection
    - 1) If you can hear thunder from lightning, you are close enough be hit by it. Seek safe shelter.
    - 2) Properly ground all equipment when installed.
    - 3) Disconnect antennas from radios when lightning is observed in the area.
    - 4) Disconnect radios/power supplies from ac outlets when lightning is observed in the area.
    - 5) If you are in a vehicle, do not remain in a high location that would make you a likely target for lightning (such as a hilltop or large open field).
    - 6) If you are on foot, seek shelter. Report to mission base, or any other unit, that you are leaving the air due to lightning. Move to a sturdy building or car. Do not take shelter in small sheds, under isolated trees, or in a convertible automobile.
    - 7) If on foot and no suitable shelter is available, find a low spot away from trees, fences and poles. Make sure the place you pick is not subject to flooding. If you are in the woods, take shelter under shorter trees.
  - b) Proper routing and securing of cables and wires
  - c) Locating antenna systems to minimize RF exposure and EMI
  - d) Explain a proper grounding system

**Additional Information**

Additional information on radio safety can be found in Chapter 7 of CAPR 100-1 Vol. 1. Additional lightning safety tips can be found at the National Lightning Safety Institute's home page at:

<http://www.electricnet.com/orgs/nlsi.htm>

**Evaluation Preparation**

**Setup:** None

**Brief Student:** Have the student recite the 5 safety rules for lightning protection. Have the student explain the proper routing and securing of wires and cables, how to properly locate an antenna system and ground the equipment.