



Fire Protection Training

Procedures Handbook 4300

TOOL & EQUIPMENT

TOPIC: Six Volt Hand Lantern, Clamp On Type

TIME FRAME: 20 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will identify the parts and describe the operation and maintenance of a six volt hand lantern of the clamp on variety.

Standard: With a minimum of 70% accuracy

MATERIALS NEEDED:

- Six volt hand lantern with battery
- Appropriate visual aids
- Emery cloth
- Audio visual equipment

REFERENCES:

- Manufacturer's literature

PREPARATION: Six volt hand lanterns are particularly effective when working in confined spaces where hands free operation is desirable. This device is equally effective around the station or on the fire line.



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PRESENTATION	APPLICATION
<ul style="list-style-type: none">4. 15 amps5. Capable of vertical (up and down) beam adjustment6. 40,000 candle power7. Has a built-in reflector <p>II. LANTERN MAINTENANCE</p> <p>A. To Replace Sealed Beam Lamp</p> <ul style="list-style-type: none">1. Place hand on old lamp to hold it in place2. Place a small regular/slotted screwdriver inside either curled end of the retaining ring.3. Gently pry the retaining ring outward and slip it away from the lip of the lantern head4. Remove the old lamp by tipping the lantern forward5. Pull the two connectors of the old sealed beam lamp6. Push two connectors onto the new sealed beam lamp7. Position new lamp back in the lantern head8. Replace retaining ring by firmly pushing it under the lip of the lantern head<ul style="list-style-type: none">a. Begin at one curved end and work toward other endb. Keep curled end away from the sealed beam lamp <p>B. To Replace Six Volt Battery</p>	



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PRESENTATION	APPLICATION
<ol style="list-style-type: none">1. Remove cap screws from the head assembly2. Lift head assembly off the old discharged battery3. Remove cap screws from the new six volt battery4. Place the head assembly on the battery with the battery terminals/post protruding through the holes in the head assembly.<ol style="list-style-type: none">a. Lamp will operate with either positive or negative terminals/posts to the front or rear.5. Replace cap screws to secure head assembly to the battery<ol style="list-style-type: none">a. Over-tightening may damage the terminals or screw caps <p>C. Troubleshooting</p> <ol style="list-style-type: none">1. Test lantern by pushing switch to "on" position<ol style="list-style-type: none">a. If light does not operate check:<ol style="list-style-type: none">(1) For corrosion(2) Loose connection(3) Damaged electrical wire(4) Stripped screw caps(5) Discharged battery(6) Burned out sealed beam lamp	<p>Clean contacts with emery cloth</p>

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PRESENTATION	APPLICATION
<p>2. Dispose of battery properly</p> <ul style="list-style-type: none">a. Do not burnb. Do not litter	

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SUMMARY:

The six volt hand lantern is very versatile and can provide adequate light when working in confined space. Though maintenance requirements are minimal they are also critical if the lantern is to work the first time every time.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).