



Fire Protection Training

Procedures Handbook 4300

HOSE

TOPIC: Care Of Fire Hose Couplings

TIME FRAME: 30 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will describe how to care for and protect fire hose couplings.

Standard: With a minimum of 70% accuracy

MATERIALS NEEDED:

- Bucket of mild soapy water
- Soft bristled scrub brush
- Couplings as needed
- Threading tools
- Graphite
- Gaskets

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 10

PREPARATION: Fire hose and the water it supplies firefighters are the life blood of the fire service. If the couplings are not cleaned and cared for, the next time they are used they may not function properly thereby slowing or reducing the effectiveness of the firefighting operation.



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CARE OF FIRE HOSE
COUPLINGS

PRESENTATION	APPLICATION
<p>I. COUPLINGS ARE VERY SUSCEPTIBLE TO DAMAGE</p> <p>A. Avoid Dropping and/or Dragging</p> <ol style="list-style-type: none">1. Dropping can damage the threads<ol style="list-style-type: none">a. Uncoupled hose is more susceptible to damage2. Dragging will wear down the lugs <p>B. Do Not Allow Vehicles to Run Over Couplings</p> <ol style="list-style-type: none">1. Will distort even coupled couplings<ol style="list-style-type: none">a. Out of round couplings must be discarded <p>C. Examine Coupling Prior to Washing Hose</p> <ol style="list-style-type: none">1. Should be done each time hose is washed <p>D. When Washing Hose, Remove Gasket, Submerge Coupling and Free Swivel It In Warm Soapy Water</p> <ol style="list-style-type: none">1. There should be no resistance in the swivel after washing <p>E. Clean Threads of Tar, Dirt, Gravel and Oil Using</p> <ol style="list-style-type: none">1. Soft bristle brush2. Soapy water3. A thread file or tap and die to repair damage	<p>Which is more susceptible to damage, coupled or uncoupled couplings?</p> <p>What can be done to a coupling that is out of round?</p>



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<p>F. Inspect Gasket</p> <ol style="list-style-type: none">1. Should be done periodically<ol style="list-style-type: none">a. During annual hose testb. When washed2. Pinch gasket between thumb and index finger<ol style="list-style-type: none">a. Will usually disclose any defects3. Replace gasket in coupling if:<ol style="list-style-type: none">a. Crackedb. Creasedc. Out of roundd. Hardened <p>G. Lubricate Swivels</p> <ol style="list-style-type: none">1. As needed2. With graphite <p>H. Coupling Inspections Should Check to Ensure:</p> <ol style="list-style-type: none">1. Coupling on hose or appliance tightly2. Threads are clean3. Threads are not damaged4. Coupling is not out of round5. Coupling is free of burrs6. Swivel spins freely7. Swivel gasket is in place	



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SUMMARY:

Couplings can be damaged in various ways. It is essential that a firefighter be aware of the potential for damage and take precautions to prevent it from happening.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).