



# Fire Protection Training

Procedures Handbook 4300

HOSE APPLIANCES & TOOLS

**TOPIC:** Operating a 2-1/2" Hose Clamp

**TIME FRAME:** 30 Minutes

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* A written quiz

*Behavior:* The student will be able to list and describe the purposes and functions of 2-1/2" hose clamps.

*Standard:* With a minimum of 70% accuracy

**MATERIALS NEEDED:**

- One section of 2 1/2" hose
- Various hose clamp tools
- Appropriate visual aids
- Audio visual equipment

**REFERENCES:**

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 10
- IFSTA, Hose Practices, 7th Edition, Chapter 3

**PREPARATION:** If a hoseline either bursts or is charged prior to having a nozzle or appliance attached, firefighter must be able to quickly shut down the line. One of the tools available do this is the hose clamp. All firefighters should know what the hose clamp is and how it works.



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OPERATING A 2 1/2 HOSE CLAMP

PRESENTATION	APPLICATION
<p><b>I. PURPOSE OF THE HOSE CLAMP TOOL</b></p> <p>A. Allows Firefighters to Shut Down a Hoseline at a Point Other Than the Engine Discharge Valve or Hydrant Valve in Order to:</p> <ol style="list-style-type: none"><li>1. Extend hoselines without shutting off water supply</li><li>2. Replace a burst section of hose without shutting off water supply</li><li>3. Charge supply lines prior to connecting supply line to pump intake</li><li>4. Retrieve a wild hoseline</li></ol> <p><b>II. FUNCTION AND TYPES OF HOSE CLAMPS</b></p> <p>A. Compresses Hoseline at a Point Between Two Couplings to Stop or Prevent Water Flow</p> <p>B. Hose Clamps are Classified by Their Method of Operation</p> <ol style="list-style-type: none"><li>1. Press down</li><li>2. Pull up</li><li>3. Screw down</li><li>4. Hydraulic press</li></ol> <p><b>III. HOSE CLAMPING GUIDELINES</b></p>	<p>Ask the students to describe examples of when the tool might be used</p> <p>Demonstrate operation of each type of hose clamp</p>



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## OPERATING A 2 ½ HOSE CLAMP

PRESENTATION	APPLICATION
<ul style="list-style-type: none"><li>A. Place Hose Clamp at Least 20 Feet Rear of Apparatus</li><li>B. Place Hose Clamp Not Closer Than 6 Feet from a Coupling, on the Supply Side</li><li>C. Stand to One Side When Applying or Removing a Lever-operated Clamp<ul style="list-style-type: none"><li>1. Do not place head above clamp</li></ul></li><li>D. Close and Open the Clamp Slowly to Avoid Water Hammer</li><li>E. Place Clamp with Release Handle Away from Curb Side of the Road to Prevent Clamp Hitting the Curb and Opening Too Soon</li><li>F. Center the Hose Carefully in the Clamp to Avoid Pinching</li><li>G. Do Not Shut Water Flow Off During Firefighting Operations Without First Notifying All Affected Personnel</li></ul>	<p>Discuss important rules about hose clamp operations</p>



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OPERATING A 2 ½ HOSE CLAMP

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## ***SUMMARY:***

Hose clamps are designed to shut off the flow of water in a hoseline. This operation must be done carefully and must be well coordinated to minimize damage to the hose, property and personnel.

## ***EVALUATION:***

A written quiz.

## ***ASSIGNMENT:***

To be determined by instructor(s).