



Fire Protection Training

Procedures Handbook 4300

HOSE

TOPIC: How to Test Fire Hose

TIME FRAME: 30 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A fire hose pressure tester, appropriate attachments, a water supply and 300 feet of fire hose

Behavior: The student will test 300 feet of fire hose.

Standard: With a minimum of 100% accuracy

MATERIALS NEEDED:

- Hose pressure tester
- Water supply line to tester
- Gate valve with 1/4 inch orifice in gate
- 300 feet of hose
- Shut off nozzle or cap

REFERENCES:

- IFSTA, Hose Practices, 7th Edition, Chapter 2
- NFPA, Standard 1962, Chapter 5

PREPARATION:

Fire hose testing can become a dangerous "routine" operation. Careful adherence to procedures and safeguards will minimize injuries.



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HOW TO TEST FIRE HOSE

OPERATIONS

KEY POINTS

- | OPERATIONS | KEY POINTS |
|------------------------------|--|
| 1. Inspect hose to be tested | 1a. Visually
b. Mechanical damage
c. Temperature damage
d. Chemical damage
e. Mildew/mold |
| 2. Place hose tester | 2a. Bottom Slope
b. Nozzle at top of slope (elevated) |
| 3. Connect water supply | 3a. To inlet on tester |
| 4. Attach gate valve | 4a. To outlet on tester
b. 1/4 inch orifice drilled in gate |
| 5. Attach test hose | 5a. To gate valve
b. Short section of 1-1/2 inch hose from gate valve to hose if 3-1/2 inch diameter or greater
c. Up to 300 feet at one time
d. Repaired hose should be tested 1 length per test |
| 6. Fill hose being tested | 6a. Open gate valve
b. Raise pressure to 45 PSI
c. Elevate nozzle and bleed air
d. Close gate valve |
| 7. Check coupling | 7a. Place pencil marks at end of coupling |
| 8. Secure hose | 8a. Both ends
b. With rope, chain, or strap |
| 9. Clear area | 9a. All personnel
b. Front, rear, right side of hose
c. No closer than 15 feet on left side of hose |



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OPERATIONS

KEY POINTS

10. Raise pressure

10a. Slowly

b. Not faster than
100 PSI/6 seconds

11. Maintain pressure

11a. 5 minutes

12. Drain hose

12a. Check pencil marks

13. Update Records

14. Sort

14a. Tag broken hose

b. Cut 1/2 way through damage
c. Cut off defective coupling



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APPLICATION:

The student will practice until proficient.

EVALUATION:

A performance examination.

ASSIGNMENT:

To be determined by instructor(s).

Performance Examination

HOW TO TEST FIRE HOSE

	<u>POINTS</u>
1. Inspect hose visually for damage	___ 5
2. Position hose with nozzle elevated above pressure tester	___ 5
3. Connect water supply to pressure tester inlet	___ 5
4. Attach gate valve with 1/4" orifice in gate	___ 5
5. Attach hose/s to gate valve	___ 5
6. Fill hoses with water	___ 5
7. Open gate valve	___ 5
8. Raise pressure to 45 psi (ñ 5 psi)	___ 5
9. Elevate nozzle to bleed air	___ 5
10. Close gate valve	___ 5
11. Check coupling and place pencil mark at base of each coupling	___ 5
12. Secure hoses at both ends to prevent whipping action	___ 10
13. Clear area of all unnecessary personnel	___ 10
14. Raise pressure to test pressure not faster than 100 psi/6 seconds	___ 10
15. Maintain pressure for 5 minutes	___ 5
16. Drain hoses and check pencil marks at base of coupling for slippage	___ 5
17. Sort out tag and update record on defective hose	___ 5
	POINTS POSSIBLE: ___ 100

POINTS DEDUCTED:

Performance Examination

FINAL SCORE:

EVALUATOR'S SIGNATURE:

DATE:

COMMENTS:
