



# MANIPULATIVE PERFORMANCE TEST

Procedures Handbook 4200

ORIENTATION TO WATER  
AND HOSE USE

**TOPIC/EQUIPMENT:** MAKING A PROGRESSIVE HOSELAY (FIRE CREW)

**CATEGORY:** Performance Examination

**POINTS POSSIBLE:** 100

**TIME ALLOWED:** 15 minutes

**BEHAVIORAL OBJECTIVE:**

*Condition:* 1000 feet of 1 1/2 inch hose, 500 feet of 1 inch hose, 1 1/2 inch nozzle, 5 - 1 inch nozzles, 5 in-line hose tee's, 1 hose clamp, 2 spanner wrenches - 1 1/2 inch, Water source - Minimum 1 1/2 inch discharge

*Behavior:* The fire crew will demonstrate the procedures for completing a 1000 foot progressive hoselay, with laterals.

*Standard:* With a minimum of 70% accuracy, according to the score sheet

**MATERIALS NEEDED:**

- One fire crew in full safety gear with captain
- Ten 100' lengths of 1 1/2" hose
- Five 100' lengths of 1" hose
- One 1 1/2" nozzle
- Five 1" nozzle
- Five 1 1/2" X 1" in line hose tees
- One hose clamp
- Two 1 1/2" spanners
- One water source for 1 1/2" hose
- One clipboard
- One roll flagging
- One score sheet per crew
- One manipulative performance test cover page
- One stop watch
- One set crew fire tools (optional)



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## **PROCEDURES:**

The time will start when the first length of hose is rolled out. The time will end when the last length of hose is charged and fully extended. The crew will demonstrate the ability to make a progressive hoselay.

## **SCORING:**

Points will be deducted for each step omitted, performed improperly, or performed out of sequence. Lettered procedures may be performed in any sequence within the numbered step without a loss of points. Steps designated by an asterisk (\*) must be performed or the crew fails the examination. A score of zero (0) will be given if during the examination the crew performs any step or procedure that would jeopardize the safety of personnel or damage the equipment.

## **SPECIAL NOTES:**

Before the examination begins the crew will be allowed to ask any clarifying questions and inspect the equipment. Once the examination begins the evaluator shall not answer any questions or intercede in any way, unless safety violations occur that would injure personnel or equipment. The examination will begin with the crew standing by a stack of hose. The crew may, and should if possible, bring their fire tools along with the hoselay to use on spot fires or firefighting beyond the end of the hoselay. The flagging is used to mark the simulated fire line's edge. The fire crew will start flowing the water at the anchor point and will put down a continuous wet line until last length of hose is fully extended.

# Score Sheet

MAKING A PROGRESSIVE  
HOSELAY (FIRE CREW)

DATE \_\_\_\_ / \_\_\_\_ / \_\_\_\_ TEST # \_\_\_\_ RETEST # \_\_\_\_ UNIT # \_\_\_\_

STUDENT'S NAME \_\_\_\_\_

EVALUATOR'S NAME \_\_\_\_\_

## **STEPS AND PROCEDURES**

	<b><u>POINTS</u></b>
1. Captain briefs crew	
a. Safety aspects	<u>1</u>
b. Escape route	<u>1</u>
c. Weather	<u>1</u>
d. Fire Direction	<u>1</u>
e. Footing	<u>1</u>
f. Avoiding pinching hos	<u>1</u>
g. Avoid pinching fingers	<u>1</u>
h. Using proper lifting techniques	<u>1</u>
i. Tool up crew (optional (no points))	<u>0</u>
2. Captain designates assignments to crew	
a. Nozzle person	<u>1</u>
b. Clamp/Brass person	<u>1</u>
c. Hose handlers	<u>1</u>

## **START TIME**

# Score Sheet

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	<b><u>POINTS</u></b>
3. Hose handler unrolls 100 foot length of 1 ½" hose	<u>2</u>
a. Not into heavy brush or towards fire	<u>2</u>
4. Hose handler hands male coupling to nozzle person	<u>2</u>
5. Hose handler hands female coupling to clamp/brass person	<u>2</u>
6. Clamp/brass person inspects female coupling	<u>        </u>
a. Checking coupling gasket	<u>1</u>
b. Checking thread	<u>1</u>
7. Clamp/brass person connects female coupling to discharge	<u>        </u>
a. Hand tight	<u>3</u>
8. Nozzle person inspects nozzle	<u>        </u>
a. Checking for coupling gasket	<u>1</u>
b. Checking threads	<u>1</u>
9. Nozzle person connects nozzle to hose	<u>        </u>
a. Hand tight	<u>3</u>
10. Nozzle person states: " <b>CHARGE LINE</b> "	<u>2</u>
11. Clamp/brass person states: " <b>WATER</b> " and then opens discharge	<u>2</u>
12. Nozzle person opens nozzle	<u>2</u>
a. Making a wet line	<u>2</u>

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	<b><u>POINTS</u></b>
b. From anchor point	<u>*</u>
13. Clamp/brass person and hose handlers pull hose	<u>2</u>
14. Hose handler drops and drags hose for next length	<u>2</u>
15. Clamp/brass person calls: " <b>HOSE</b> "	<u>2</u>
a. Leaving 10 feet of slack in hoseline	<u>          </u>
16. Nozzle person stops advancing	<u>2</u>
a. Closing nozzle	<u>3</u>
17. Nozzle person states: " <b>CLAMP HOSE</b> "	<u>2</u>
a. Loudly	<u>          </u>
18. Clamp/brass person clamps hose	<u>3</u>
a. 10 feet behind nozzle	<u>2</u>
b. Avoids pinching hose	<u>2</u>
19. Clamp/brass person states: " <b>CLAMPED</b> "	<u>2</u>
a. Loudly when hose is clamped	<u>2</u>
20. Nozzle person opens nozzle to release water pressure	<u>2</u>
21. Nozzle person removes nozzle from hose and hands male coupling to hose handler	<u>2</u>
22. Clamp/brass person hands 1 1/2 inch water tee to hose handler who installs tee	<u>3</u>

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	<b><u>POINTS</u></b>
a. At end of first 100 feet length of line	<u>2</u>
b. At every 200 feet or as needed thereafter	<u>2</u>
23. Repeat steps 4 through 23 while completing step 24 through 28 until hoselay is complete	<u>2</u>
24. Completed hoselay will be 1,000 feet long	<u>*</u>
25. Captain directs crewmember to lay a lateral line	<u>2</u>
a. Hose handler with length of 1 inch hose	<u>2</u>
26. Hose handler unrolls 1 inch lateral	<u>3</u>
a. Not towards fire	<u>2</u>
27. Crewmember connects lateral to tee and 1 inch nozzle	<u>3</u>
a. Checking threads	
28. Crewmember extends lateral	<u>2</u>
a. Perpendicular to charged hoseline	
b. While holding nozzle	
c. Fully extended	
d. Crewmember remains with nozzle	
29. Until hoselay is completed at 1000 feet long	<u>*</u>
30. Captain advises crew to stop	<u>2</u>
a. Stop forward progress of hoselay	

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	<u>POINTS</u>
<b>STOP TIME</b>	
31. Captain advises crew to breakdown hoseline	<u>3</u>
a. Disconnect hose sections	
b. Drain hose	
c. Pack hose	
32. Crewmembers disconnect hose section	<u>3</u>
33. Crewmembers drain hoses	<u>2</u>
a. Lay couplings downhill	
b. Draining all water out of hose	
34. Remove all hose appliances from hose connections	<u>3</u>
a. Bring appliances back to starting point	
b. Retrieving rubber bands	
35. Carry hose back to the starting point	<u>1</u>
a. Over the shoulder/butterfly hose carry	<u>1</u>
b. No more than two lengths per person at one time	<u>1</u>
36. Roll all hose	<u>3</u>
a. Two person teams	
	<b>ENTER TOTAL TIME:</b> _____ :
	<b>POINTS POSSIBLE:</b> _____ 100

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POINTS DEDUCTED: \_\_\_\_\_

FINAL SCORE: \_\_\_\_\_

EVALUATOR'S SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

**COMMENTS:**

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