



# Fire Protection Training

Procedures Handbook 4300

HOSE

**TOPIC:** How To Siamese Two Lines Into One Line

**TIME FRAME:** 30 Minutes

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* 3 lengths of hose and a siamese appliance

*Behavior:* The student will connect 2 parallel hose lines into a single hose line using a siamese appliance under simulated fireground conditions.

*Standard:* With a minimum of 70% accuracy, within 60 seconds

**MATERIALS NEEDED:**

- Three lengths of hose
- A siamese appliance
- A performance examination
- Tally sheet
- Stop watch

**REFERENCES:**

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

**PREPARATION:**

In a major fire situation a single 2 1/2" hose line may not provide sufficient water to meet fire flow requirements. The addition of a second line used in conjunction with a siamese appliance, can increase the volume of water and significantly reduce the friction loss. Knowing how to use the siamese appliance can mean the difference between successfully augmenting the fire flow and a disaster.

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HOW TO SIAMESE TWO  
LINES INTO ONE LINE

## OPERATIONS

## KEY POINTS

- | OPERATIONS                          | KEY POINTS   |
|-------------------------------------|--|
| 1. Position siamese appliance       | 1a. Centered in test site  |
| 2. Position input (supply) hoses    | 2a. Two hose lines<br>b. Parallel<br>c. Fully extended<br>d. Straight<br>e. Male couplings adjacent to siamese<br>f. On respective sides of siamese                              |
| 3. Position output (discharge) hose | 3a. On side of siamese opposite input hose<br>b. Fully extended<br>c. Straight<br>d. Female coupling adjacent to siamese   |
| 4. Inspect couplings and siamese    | 4a. Threads<br>b. Gaskets<br>c. Shape<br>d. Obstructions<br>e. Swivels<br>f. Clappers  |
| 5. Connect input (supply) lines     | 5a. Consecutively<br>b. Foot tilt method<br>c. Align properly<br>d. Higbee indicator<br>e. Swivel counter clockwise<br>(1) Until click<br>f. Swivel clockwise<br>g. Hand tighten |



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## OPERATIONS

## KEY POINTS

6. Connect output (discharge) line

- 6a. Foot tilt method
- b. Behind siamese appliance
- c. Align coupling
- d. Higbee indicator
- e. Swivel counter clockwise
  - (1) Until click
- f. Swivel clockwise
- g. Hand tighten



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***APPLICATION:***

Student to practice until proficient.

***EVALUATION:***

A performance examination.

***ASSIGNMENT:***

To be determined by instructor(s).

# Performance Examination

HOW TO SIAMESE TWO  
LINES INTO ONE LINE

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## POINTS

### TIME START

- |    |   |           |
|----|---|-----------|
| 1. | Position siamese in center of test area   | <u>10</u> |
| 2. | Extend two lengths of hose to the supply side of the siamese. Lines must be parallel, free of kinks and fully extended. Male couplings must be positioned at siamese. | <u>20</u> |
| 3. | Extend one length of hose from the discharge side of the siamese. Line must be free of kinks and fully extended. Female coupling must be positioned at the siamese.   | <u>10</u> |
| 4. | Inspect all coupling and siamese appliance.   | <u>10</u> |
| 5. | Connect all supply and discharge lines to the siamese appliance using the foot tilt method.   | <u>30</u> |
| 6. | Turn swivel counter clockwise until click is heard, then clockwise until lines are hand tight.  | <u>20</u> |

### TIME STOP

**ENTER TOTAL TIME:** \_\_\_\_\_:

**POINTS POSSIBLE:** 100

**POINTS DEDUCTED:**

**FINAL SCORE:**

**EVALUATOR'S SIGNATURE:**

**DATE:**

**COMMENTS:**

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