



# Fire Protection Training

Procedures Handbook 4300

HOSE

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

**TIME FRAME:** 30 Minutes

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* One length of 2 1/2" hose and two lengths of 1 1/2" hose, a 2 1/2" x 1 1/2" x 1 1/2" gated wye, and two 1 1/2" nozzles prepositioned at the test site

*Behavior:* The student will wye one line into two lines using a 2 1/2" x 1 1/2" x 1 1/2" gated wye under simulated fire conditions.

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

**MATERIALS NEEDED:**

- One length of 2 1/2" hose
- Two lengths of 1 1/2" hose
- 2 1/2" x 1 1/2" x 1 1/2" gated wye
- Two 1 1/2" nozzles

**REFERENCES:**

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

**PREPARATION:**

Certain occasions make it desirable to divide a hose line into two or more hose lines on the fireground. Various types of wye connections are available that will allow you to do this. The most common being the 2 1/2" x 1 1/2" x 1 1/2" gated wye. This appliance is used to divide a 2 1/2" line into 2 more easily handled 1 1/2" lines.



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HOW TO WYE ONE LINE INTO  
TWO LINES

## OPERATIONS

## KEY POINTS

1. Obtain and inspect gated wye
2. Position gated wye
3. Position (input) supply hose
4. Position (output) discharge hoses
5. Attach gated wye to 2 1/2" line
6. Position gate valves
7. Attach two 1 1/2" lines to gated wye
8. Attach two 1 1/2" nozzles to 1 1/2" hoselines

- 1a. Threads
- b. Gaskets
- c. Operation of gates
- d. Free swivel.
- e. 2 1/2" x 1 1/2" x 1 1/2"
- 2a. Center of test site
- 3a. Fully extended from engine to gated wye
- b. 2 1/2 inch female coupling adjacent to engine
- c. Male coupling adjacent to gated wye
- 4a. Parallel
- b. Fully extended
- c. Female couplings adjacent to gated wye male couplings
- 5a. Male coupling
- b. Foot tilt method
- c. Hand tighten
- 6a. To desired position, open or closed
- 7a. Foot tilt method
- b. Foot tilt rill raise wye enough to connect 1 1/2" hose
- c. Counter clockwise until click
- d. Hand tighten in clockwise direction
- 8a. Counter clockwise until click
- b. Clockwise until hand tight

4307.35

Page 2



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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 WYE ONE LINE TO  
TWO LINES

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## POINTS

### TIME START

- |    |  |           |
|----|--|-----------|
| 1. | Obtain and inspect gated wye for gaskets, threads, operational gates | <u>20</u> |
| 2. | Position gated wye in center of test area                            | <u>10</u> |
| 3. | Lay out a 2 1/2" hoseline and two 1 1/2" parallel lines              | <u>20</u> |
| 4. | Attach gated wye to 2 1/2" line male coupling using foot tilt method | <u>10</u> |
| 5. | Position gate valves in closed position                              | <u>10</u> |
| 6. | Attach two 1 1/2" lines to gated wye using foot tilt method          | <u>10</u> |
| 7. | Attach two 1 1/2" nozzles to the two 1 1/2" hoselines                | <u>20</u> |

### TIME STOP

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

**POINTS POSSIBLE:** 100

**POINTS DEDUCTED:**

**FINAL SCORE:**

**EVALUATOR'S SIGNATURE:**

**DATE:**

### COMMENTS:

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