



Fire Protection Training

Procedures Handbook 4300

HOSE APPLIANCES & TOOLS

TOPIC: Features Of Fire Service Wyes

TIME FRAME: :20

LEVEL OF INSTRUCTION: Level I

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will be able to identify the distinguishing features of fire service wyes.

Standard: With a minimum of 80% accuracy

MATERIALS NEEDED:

- Example of wye appliances
- White board and erasable markers
- Appropriate visual aids
- Audio visual equipment

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 5th Edition, Chapter 13
- IFSTA, Hose Practices, 7th Edition Chapter 3

PREPARATION:

Many times on the fireground it becomes necessary to divide one line into two. Wyes are the appliances that allow us to achieve these hose evolutions. All fire fighters should be familiar with the use of this hose appliance.



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PRESENTATION	APPLICATION
<p>I. USES OF WYE APPLIANCES</p> <ul style="list-style-type: none">A. Divide one line into two linesB. Example<ul style="list-style-type: none">1. Running a supply line to a designated point and dividing line into two attack lines2. Running a supply line to a designated point and dividing line into two supply lines supplying two engines3. Common sizes<ul style="list-style-type: none">a. 2-1/2" x 1-1/2" x 1-1/2"b. 1-1/2" x 1-1/2" x 1-1/2" <p>II. TYPES OF WYE APPLIANCES</p> <ul style="list-style-type: none">A. Straight Wye<ul style="list-style-type: none">1. Does not have a water direction flow control device2. Must shut down operation to disconnect linesB. Gated Wye<ul style="list-style-type: none">1. Has a water direction flow control device at each outlet which is manually operated<ul style="list-style-type: none">a. Municipal version<ul style="list-style-type: none">(1) 2-1/2" x 1-1/2" x 1-1/2"b. Wildland version<ul style="list-style-type: none">(1) 1-1/2" x 1-1/2" x 1-1/2" NH thread(2) 1" x 1" x 1" NPSH thread(3) 3/4" x 3/4" x 3/4" garden hose thread2. Allows apparatus to connect or disconnect without interrupting the pumping operation <p>III. PARTS OF A WYE APPLIANCE</p> <ul style="list-style-type: none">A. Inlet (Supply) Connection<ul style="list-style-type: none">1. Gated or2. Ungated	



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<ul style="list-style-type: none">3. One female couplingB. Outlet (Discharge) Connection<ul style="list-style-type: none">1. Gated2. Two male couplingsC. Body<ul style="list-style-type: none">1. The housing which<ul style="list-style-type: none">a. Serves to contain and direct water flowb. Protects interior partsD. Swivel<ul style="list-style-type: none">1. On inlet (supply) connection <p>IV. CARE AND MAINTENANCE</p> <ul style="list-style-type: none">A. Gaskets<ul style="list-style-type: none">1. Pliable2. Good state of repair3. In proper positionB. Swivels<ul style="list-style-type: none">1. Free spinning<ul style="list-style-type: none">a. If not<ul style="list-style-type: none">(1) Wash in warm soapy water(2) Apply dry lubricant (graphite)b. Need to use periodically2. Round<ul style="list-style-type: none">a. If run over or dropped may become oval shapeb. Repair or replace as neededC. Threads<ul style="list-style-type: none">1. In good condition<ul style="list-style-type: none">a. Free of<ul style="list-style-type: none">(1) Nicks	



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<ul style="list-style-type: none">(2) Burrs(3) Tar(4) Contamination and debrisb. Repair or replace as necessary<ul style="list-style-type: none">(1) Wash and brush with warm soapy water(2) File off nicks or burrsD. Body<ul style="list-style-type: none">1. Wash with brush and soapy waterE. Gate Valve<ul style="list-style-type: none">1. Exercise to ensure operation2. Wash/immerse in warm soapy water	



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FEATURES OF FIRE SERVICE WYES

SUMMARY:

Wye appliances become an essential part of fireground evolutions when it is necessary to divide lines.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).