



FETI

DRILL GUIDE



Topic: 2½” for ADULTS

Reference #: 15-06

Level of Instruction: In service personnel

Time Required: 3 hours

PURPOSE

The purpose of this drill is to conduct a skills drill using 2½” hose as an attack line. This can be combined with pump operator training. A brief review of techniques and considerations should be given to allow each participant to perform adequately during the following evolutions.

OBJECTIVE

At the conclusion of the drill, each participant will:

- Explain the ADULTS acronym
- Demonstrate operating a charged 2½” with minimal staffing.
- Demonstrate the rapid deployment of a 2½” hoseline (either preconnected or “made up” from the hosebed)
- (For pump operators) demonstrate charging the hoseline safely, determine proper pressures for the length of layout, type of nozzle and elevation.

INSTRUCTOR PREPARATION

This drill requires minimal preparation in order for it to be successfully conducted. An appropriate training area should be located that can be used and *permission if necessary, gained*. Make sure you check the parking lot for debris and glass that the hose streams can throw at bystanders or into where someone can get hurt. Assure that run-off or spray will not affect traffic. Review the applicable sections of the Jones & Bartlett Fundamentals of Firefighter Skills or the IFSTA Essentials textbook for more specific information. Review the techniques in the below listed video from Brotherhood Instructors.

EQUIPMENT

1. Fully equipped Class A pumper
2. Necessary traffic warning equipment (cones, signs, etc.)

SAFETY PRECAUTIONS

1. Like many practical drills, there are dangers to personnel and equipment. Proper preparation can reduce that danger, but caution must be exercised throughout this drill.

2. Participants should wear personal protective equipment (at least helmets, boots, and gloves).
3. See [Safety Bulletin SB-10](#).
4. Determine site with due regard to traffic, access and other safety considerations for fire department personnel and civilian traffic or on-lookers.
5. The drill area should be adequately lighted.

REFERENCES

- Fire Training Toolbox.com “Engine Company Operations: The 2½ and YOU”
- Jones & Bartlett [Fundamentals of Firefighter Skills](#)
- IFSTA [Essentials of Firefighting](#)
- Video by Brotherhood Instructors LLC. “Engine Ops: Nozzle & Back-up Techniques”
<http://blog.brotherhoodinstructors.com/2011/05/18/video-engine-ops-nozzle-back-up-techniques/>

STUDENT MOTIVATION

It’s not often that we deploy a 2½” handline, but when it is needed, it is needed “right now,” most often to limit rapid fire spread. Like any skill, those that are used most often tend to be more familiar and successfully for the user.

DRILL

1. Introduction:
 - a. Review Safety Precautions (above)
 - b. Review your department’s hoseload (Is there a 2½” preconnect or will the hoseline need to be “made up”)
 - c. Location of nozzles, double female or male couplings.
 - d. Demonstrate different holds, especially those using limited staffing.
 - e. Review safety concerns associated to the different methods.
 - f. Review nozzle reaction, flow, friction loss.
2. Drill
 - a. Have personnel demonstrate maximum reach with a stationary line.
 - b. Practice stationary, advancing and withdrawing techniques *while flowing*.
 - c. Repeat the drill to allow the appropriate personnel to complete all of the different primary positions.

REVIEW:

Clean up the equipment and return to service. Then come together in the meeting room or location of choice and take the time to have open discussions on what worked for teams and what didn’t. By doing this you assist in ensuring that the firefighters learn from each other’s experience.

6/15 Casey



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Engine Company Operations: The 2½" and YOU

Robert C. Owens

Far too often firefighters discount the 2 ½-inch hand-line with our current staffing levels. The simple fact is that leaving this tool on the Engine could hinder fire ground efforts in extinguishing advanced fires, or fires in specific occupancy types. The ADULTS acronym is the guideline on when to utilize the 2 ½ let us review it:

- A:** Advanced Fire on Arrival
- D:** Defensive Fire Operations
- U:** Unknown Location and Extent of Fire
- L:** Large Uncompartmented Area
- T:** Tons of Water Needed
- S:** Standpipe Operations

Simply put staffing plays no part in the determination of when to use the 2½". In fact, our staffing level dictates that we must be aggressive with our hand-line choices as we do not have the personnel to make up for tactical mistakes. For example if a fire occurs in a fire department that staffs 4-5 firefighters on an engine company if they choose an inappropriate hand-line to attack the fire they have the staffing to correct this mistake by pulling additional hand-lines. Our staffing level dictates that we must make the right decision the first time as rapidly deploying additional hand-lines may be hindered due to staffing, and filling various critical fire-ground functions with our first alarm compliment. Now you know when and why to use here is the how.

1. Webbing is your friend: Every member on the hose-line should secure a piece of webbing to the line. This will allow you to use your legs to advance the line.
2. Utilize Stream Reach: The reach you get with the 2 ½ (tipped properly with our 50 psi smoother bore nozzle) Will give you a tremendous reach advantage. Use this reach to make an impact on the fire long before you reach the seat of the fire. This allows you to make an easier stretch to the fire area.





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3. Ground Contact: When opening the line keep as much hose as possible in contact with the ground. This allows a lot of the nozzle pressure to be absorbed by the ground and not you.
4. Communication: Talking, and communicating with your crew is necessary. Use this communication to make coordinated movements so that no energy is wasted, and no effort is repeated.
5. Training: You are already on the right track by reading The Training Toolbox now get out of the "Blue Chair" and pull this line off. If the technique provided does not work for you then figure out a way to make it work.

The 2½" is a vital tool in today's fire service but it does us no good when it is collecting dust on the Engine. Make no mistake it is not the line for every fire, and it is very tough to do with limited staffing. However, it CAN be done with our current staffing compliment and should be deployed when the fire dictates it.

DON'T LET YOUR FIRE GROUND SLOW YOU DOWN!

