

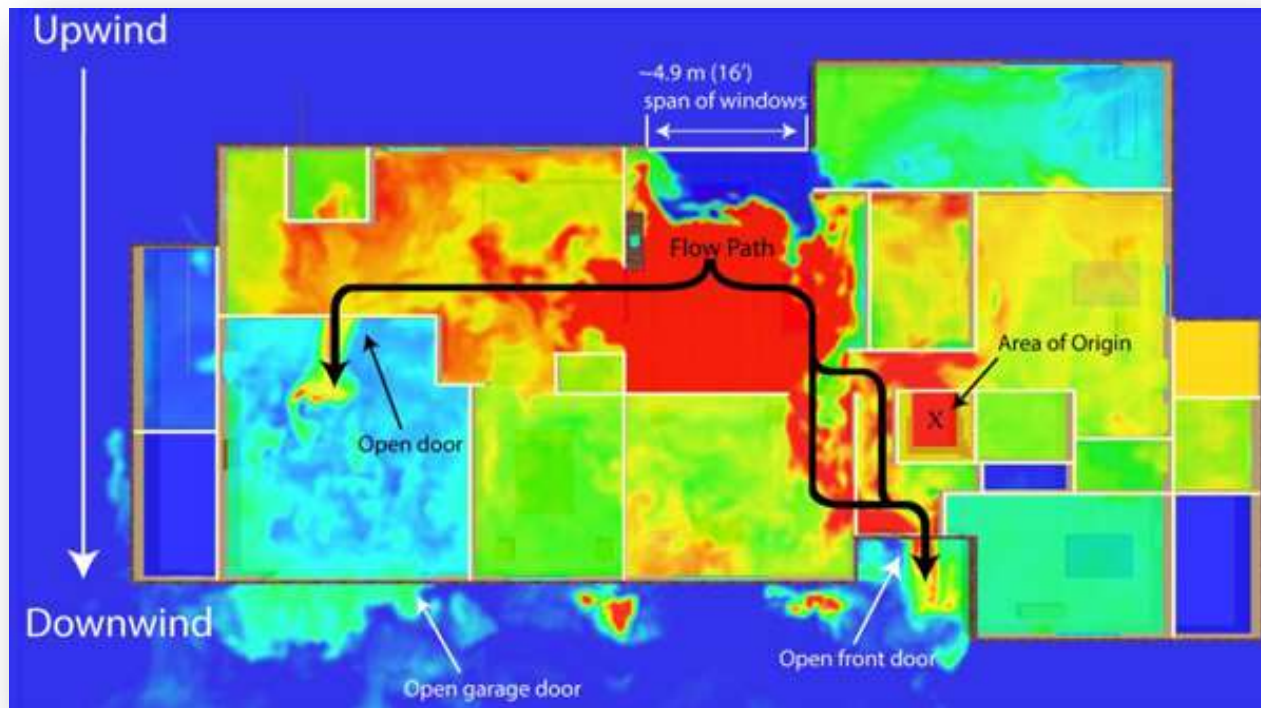
1 3/4" - INTERIOR FIRE ATTACK HOSE LAY

SINGLE LINE – 1 3/4" FIRE ATTACK LINE

OBJECTIVES

- 1. Identify appropriate size and length hose line for water supply & fire attack.**
- 2. Demonstrate proficiency in each position of the hose lay.**
- 3. Define Flow Path and the importance of controlling Flow Path during initial fire attack.**

DOOR CONTROL & FLOW PATH



Several recent studies have shown that in today's fire environment, controlling a ventilation limited fire is critical to occupant and firefighter safety. Controlling the Flow Path of a fire can limit it's growth and slow the time to flashover significantly.

DOOR CONTROL & FLOW PATH



This new hose lay incorporates controlling the Flow Path to increase firefighter safety. Firefighter Recruits are currently being taught this hose lay as part of Recruit Training.

DOOR CONTROL & FLOW PATH

This presentation focuses on the actions of the Captain, FFS and Firefighter when making entry into a structure fire.



DOOR CONTROL & FLOW PATH



The presentation DOES NOT include information on radio reports, pumping, forcible entry, or any other skill unrelated to positioning on a hose line & controlling Flow Path.

DOOR CONTROL & FLOW PATH



These topics will be covered in future drills. This presentation is meant to supplement the video instruction posted with the July drills.

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

The minimum equipment pool at the door should consist of:



Big Beam Flashlight



Prying Tool



Striking Tool

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

**If available,
the TIC
should be
assigned to
the fire
attack team.**



STRAIGHT LAY – SINGLE LINE- 1 ¾” FIRE ATTACK LINE

Often times doors are left open by the occupant, bystanders, law enforcement and/or the fire department.

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

One of the initial actions of first arriving firefighters is to control the Flow Path by closing the door.



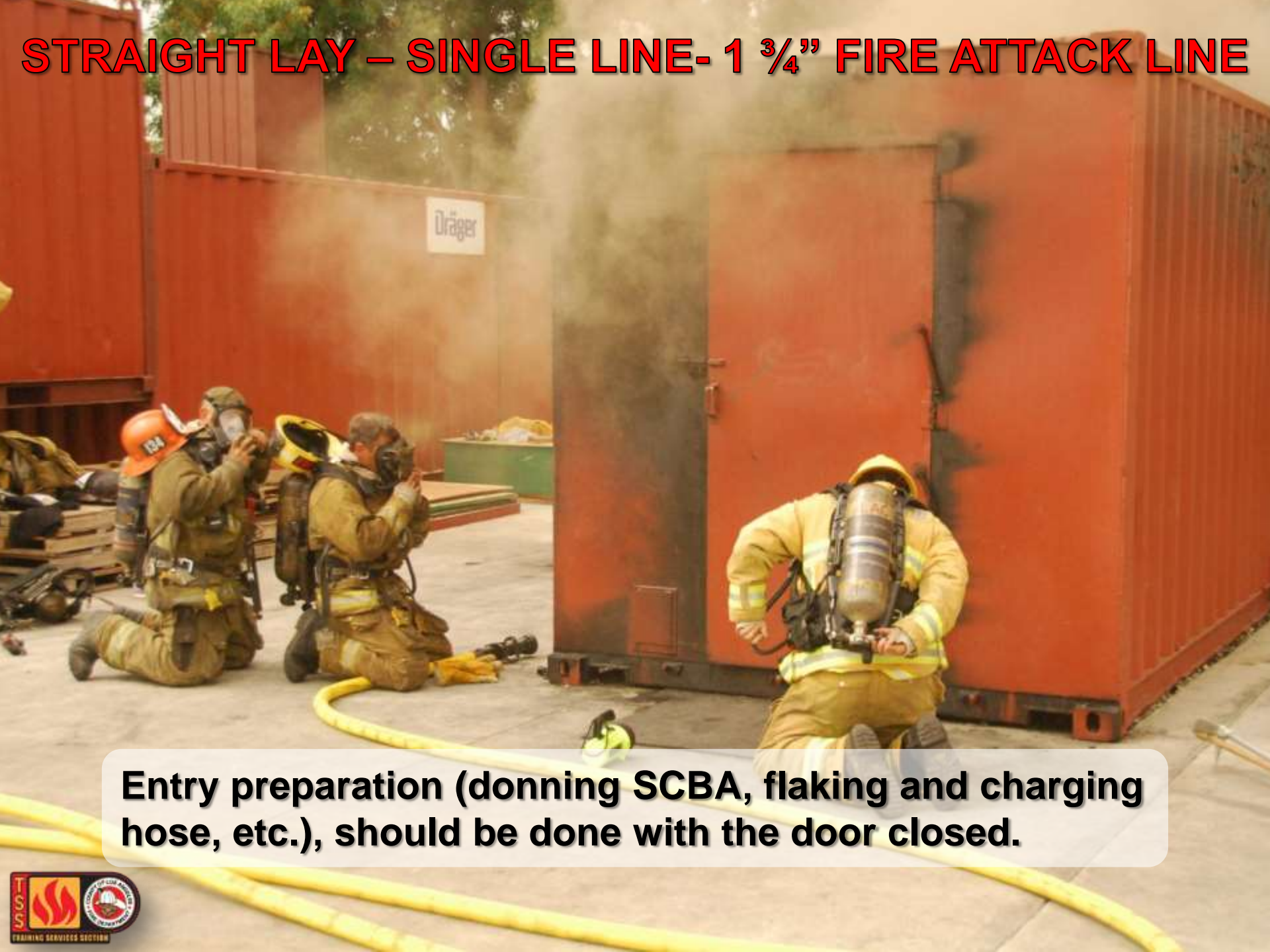
STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE



STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE



STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE



Entry preparation (donning SCBA, flaking and charging hose, etc.), should be done with the door closed.

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE



One member of the Fire Attack Team shall:

- **Check the door for heat. This can be done with a gloved hand or water spray (steam level).**
- **Ensure access through the door is obtainable.**

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

Fire attack team opens door and makes entry.



STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

What temperatures am I seeing with the TIC?

What is the smoke volume, velocity, density & color?

How is my water reacting with the upper atmosphere (turning to steam or falling to the floor?)

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

Door FF Check List

- ✓ Feed hose as needed
- ✓ Control door keeping it 2/3 closed
- ✓ Be a lookout for the fire attack team (changing fire conditions/smoke?)
- ✓ Big Beam flashlight on and in doorway
- ✓ Make noise with tool
- ✓ Keep in contact with fire attack team



STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

The Door Control firefighter positioning

- Outward swinging door = just outside the door
- Inward swinging door = just inside the door
- Maintain control of the door at all times.



STRAIGHT LAY – SINGLE LINE- 1 ¾” FIRE ATTACK LINE

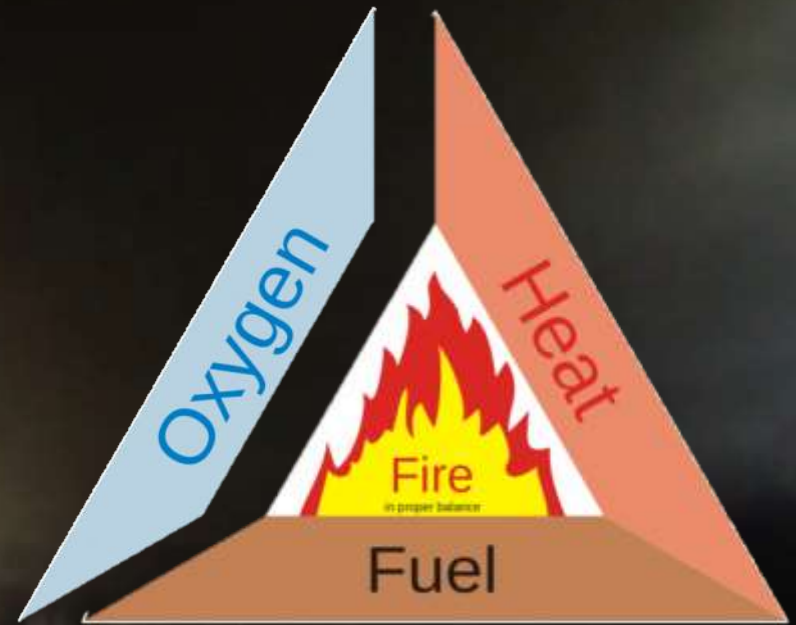
As the fire attack team advances, they “pulse” the ceiling with short bursts of water. Vaporizing water indicates a super heated atmosphere & a potentially unsafe environment.

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

Water falling to the floor or down the walls is an indication of temperatures below 200 degrees. The fire attack team can advance.

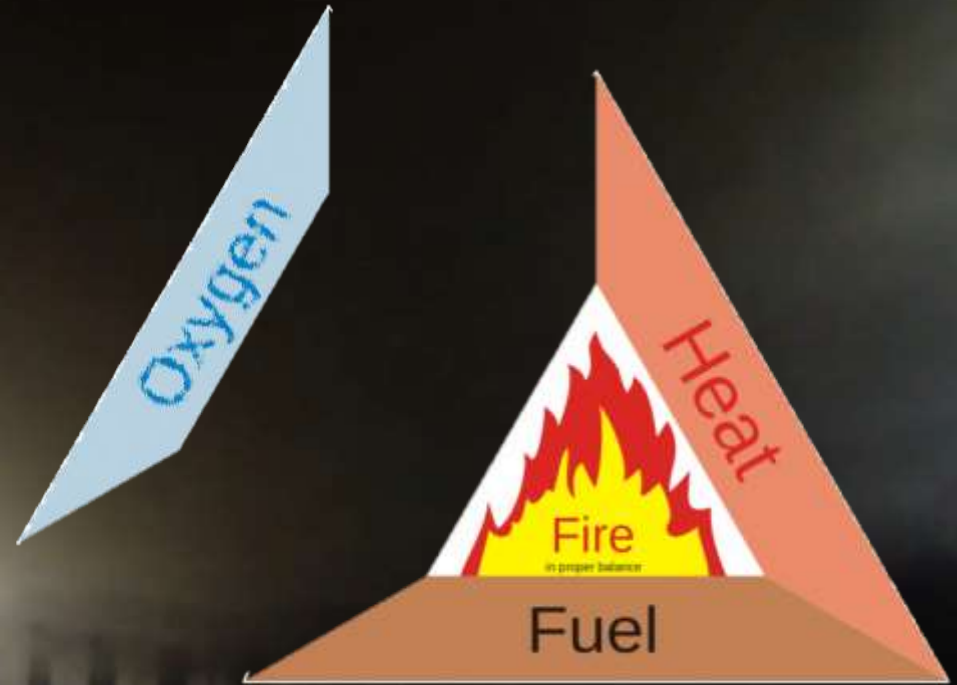
**Should we be
applying water
to smoke?**

STRAIGHT LAY – SINGLE LINE- 1 $\frac{3}{4}$ " FIRE ATTACK LINE



Remember, smoke is heated fuel which can ignite.

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE



We are keeping the fire ventilation limited by controlling the door. Some ventilation is un-planned (window failure).

STRAIGHT LAY – SINGLE LINE- 1 $\frac{3}{4}$ " FIRE ATTACK LINE



The fire attack team can provide for a safer environment by addressing another side of the fire triangle.

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

Once the fire attack team has adequate water on the seat or main body of the fire, they are “winning the battle.” Now, ventilation can occur to exhaust steam, gases and smoke.



STRAIGHT LAY – SINGLE LINE- 1 ¾” FIRE ATTACK LINE

**I'm assigned to a
3 person engine
company. Now
what?**

STRAIGHT LAY – SINGLE LINE- 1 ¾” FIRE ATTACK LINE

Concerns of the first arriving company

- **Potential rescue problem**
- **Flashover potential due to modern combustibles**
- **Forcible entry**
- **Water supply**

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE



Example:
Fire burning in 1 story, single family dwelling

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

**Firefighter
extends
hose line
to door.**



STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

Captain passes command, does 360, assists with forcible entry and initial door control.

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE



Firefighter Specialist ensures water supply is adequate for initial attack and charges hose line.

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

Now what?

STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

After donning proper PPE's, Firefighter Specialist is responsible for controlling the door.



STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

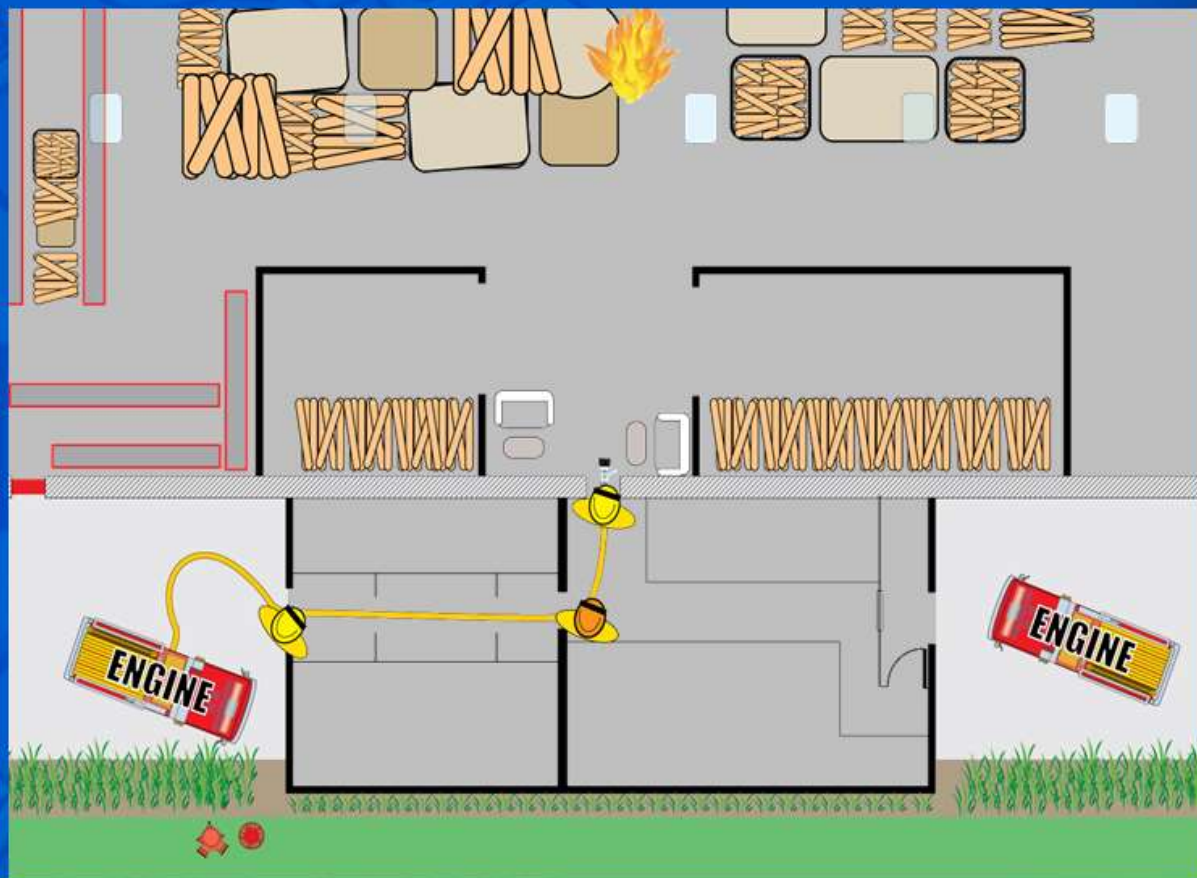
I need to extend a hose line past several control points. How do I continue to control the Flow Path & provide for better FF safety?





Positioning on the Hose Line

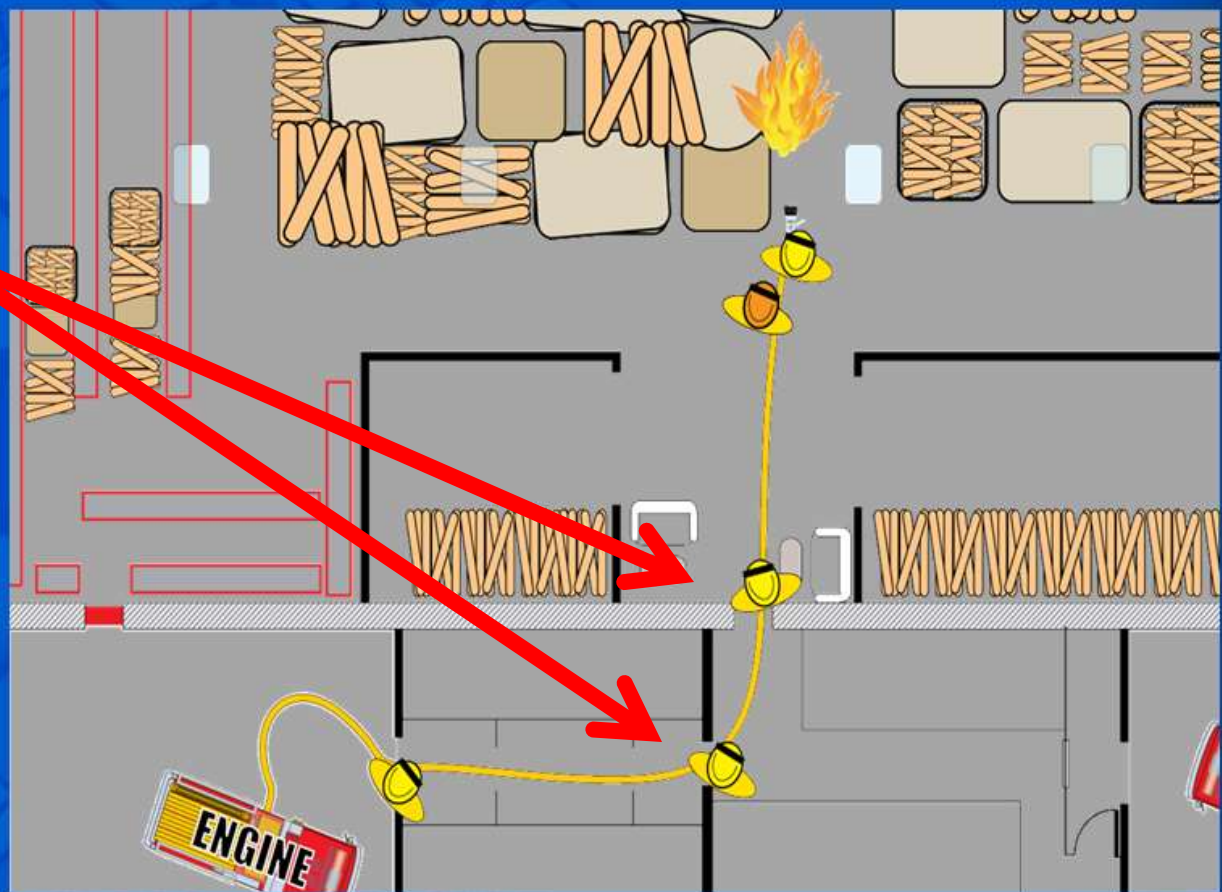
Four personnel with one apparatus operator at panel, two fire fighter's on hose line with officer or most experienced fire fighter just behind the fire fighter at the tip.





Positioning on the Hose Line

As hose line is extended further, more fire fighter's are added ensuring each egress is protected.



STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE



COUNTY OF LOS ANGELES FIRE DEPARTMENT TRAINING SERVICES SECTION

DRILL TOPIC: WET HOSE LAY - ADVANCE 1 ¾" WITH DOOR CONTROL

JAC CODES:

LFA

LDC

MINIMUM DRILL HOURS: 3

HANDS ON PREP

HANDS ON

MULTI CO. ☒ STATION ☒ ONLINE ☒

ISO SPECIALTY DRILL: YES

TOPICS TO BE COVERED:

- Establish and/or identify adequate water supply for initial fire attack (tank/lay in).
- Proper hose line selection.
- Review personnel positioning on hose line extended to interior of structure fires.
- Flow Path and controlling Flow Path to prevent flashover from occurring.

SCENARIO/HANDS ON:

One story, single family dwelling, heavy smoke showing from a bedroom window on the Alpha side of the structure.

Perform multiple evolutions to ensure all personnel adequate repetitions to improve skills.

SUGGESTED DRILL VARIATIONS:

Two story, single family dwelling

Consider different door situations. Example: door open upon arrival, door closed upon arrival, forcible entry needed, etc.

DRILL OBJECTIVES:

1. Identify appropriate size & length of hose line for water supply & fire attack.
2. Demonstrate proficiency in each position of the hose lay.
3. Define Flow Path and the importance of controlling Flow Path during initial fire attack.

DRILL DISCUSSION POINTS:

Discuss how these new techniques may change your company's SOPs during initial fire attack.

Discuss how change in the fire service is often resisted. Discuss the importance of incorporating improved tactics based sound research.

EQUIPMENT NEEDED:

Full PPE's
Standard engine company equipment
TIC
Other equipment as needed

DRILL #2

JULY 2013



STRAIGHT LAY – SINGLE LINE- 1 ¾" FIRE ATTACK LINE

Simulate arriving first or second in on a single family dwelling fire with fire showing from a bedroom window.

Vary the drill by encountering both an open and closed door, a forcible entry issue, and/or a 2 story, single family dwelling, etc.

Discuss how, armed with this information, your company and battalion SOPs may change.



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