



# FIRE CREW FIREFIGHTER TRAINING

Procedures Handbook 4300

ORIENTATION TO WATER  
AND HOSE USE

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**TOPIC:** HOW TO PICK UP AND DRAIN WILDLAND HOSE - BUTTERFLY (FIGURE 8) CARRYING METHOD-ONE PERSON

**TIME FRAME:** :15

**LEVEL OF INSTRUCTION:** Level II

**BEHAVIORAL OBJECTIVE:**

*Condition:* Given two charged lengths of 1-½" wildland hose connected to an engine

*Behavior:* The student will disconnect, drain, pick up, carry, move and deposit one (1) length of hose using the butterfly,(figure eight) method to an area within ten (10) feet of the engine's front bumper under simulated fire conditions

*Standard:* With a minimum 80% accuracy, within 2 minutes, according to the score sheet

**MATERIALS NEEDED:**

- One (1) fire engine with operator
- Two (2)100 foot lengths of 1-1/2" wildland hose
- One (1) 1-1/2" nozzle
- Performance examinations
- Individual score sheets
- One (1) stop watch
- One (1) clip board
- One (1) red pen
- One set full wildland PPE per student per CAL FIRE policy

**REFERENCES:** None



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## ***PREPARATION:***

It frequently becomes necessary to drain water from a section of wildland fire hose and to carry it a reasonable distance. Draining the hose is one task and preparing it to be carried is another task. The following technique is a way that both tasks can be performed at the same time.



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HOSE – BUTTERFLY  
(FIGURE 8) METHOD

OPERATIONS	KEY POINTS
1. Disconnect the hose line from engine	1a. From an engine's discharge b. Lying flat on the ground c. In a straight line d. Fully extended e. Filled with water
2. Disconnect one (1) hose length	2a. Uncoupling the hose line in the middle
3. Disconnect the nozzle	3a. From one of the hose lengths b. Storing it in the waist band or belt c. Not dropping or damaging nozzle
4. Drain water from each length of hose	4a. Lifting one male coupling per length b. High enough to facilitate draining c. One length at a time
5. Reposition drained hoses on ground	5a. Each hose length b. In a straight line c. Fully extended d. Empty of water
6. Take up position at one male coupling	6a. Facing the opposite end towards the female coupling
7. Pick up the male coupling	7a. In front of your body b. With one hand c. Lift using arms and legs, not back d. Point coupling towards the sky
8. Loop hose	8a. Over the top of other arm ( <u>not</u> arm with hand holding coupling) b. Arms extended forward c. Arms approximately shoulder width apart
9. Step forward	9a. Towards the female coupling

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OPERATIONS	KEY POINTS
10. Loop the hose	10a. Over the top of the arm holding the coupling b. Creating a figure eight loop
11. Repeat steps eight(8), nine(9) & ten(10)	11a. Until you reach the female coupling
12. Pick up the female coupling	12a. With your free hand
13. Pull the female coupling thru the loop	13a. Loop on free hand side b Towards the body
14. Wrapping the female end coupling	14a. Around center of the figure eight bundle b. A couple of times
15. Connect the couplings	15a. Creating a "carrying strap"
16. Pick up the hose bundle	16a. Using the carrying strap
17. Carry the hose bundle	17a. Over a shoulder b. Towards the front of the fire engine c. Walking, not running d. With the nozzle in waist or on the belt
18. Deposit the hose bundle and nozzle	18a. Within ten (10) feet of the engine's front bumper b. Not throwing the hose bundle or nozzle to the ground c. Without the nozzle or couplings striking the ground



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***APPLICATION:***

The student to practice until proficient.

***EVALUATION:***

A performance examination

***ASSIGNMENT:***

To be determined by instructor(s)