



# Fire Protection Training

Procedures Handbook 4300

STRUCTURE FIRES

**TOPIC:** How to Ventilate Using a Fog Stream

**TIME FRAME:** 30 Minutes

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* Student in full structural protective clothing with SCBA, a charged 1-1/2 hose with combination nozzle and a smoke-filled room.

*Behavior:* The student will ventilate the room utilizing a fog stream under simulated fire conditions

*Standard:* With a minimum of 100% accuracy within 45 seconds

**MATERIALS NEEDED:**

- A charged 1 1/2" line with a fog nozzle
- A burn room with a window opening
- A smoke generating device
- A stop watch
- Clipboard and a pen

**REFERENCES:**

- IFSTA, Fire Ventilation Practices, 6th Edition, Chapter 6
- IFSTA, Essentials of Firefighting, 2nd Edition, Chapter 11

**PREPARATION:**

During an interior fire attack operation it is possible for an attack team to quickly ventilate a single room using the equipment they have with them. The attack team will notice a dramatic improvement in room temperature, visibility and humidity.



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HOW TO VENTILATE USING A  
FOG STREAM

## OPERATIONS

## KEY POINTS

1. Enter smoke filled burn room
2. Open window
3. Adjust fog nozzle
4. Direct fog stream
5. Close nozzle

- 1a. In full protective gear
- b. With SCBA
- c. With charged hose line
- 2a. Fully
- b. Remove curtain, drape, screen
- 3a. 60o angle fog pattern
- b. Two feet from window
- 4a. Out designated window
- b. Cover 85% to 90% of window opening
- c. Nozzle tilted upward
- 5a. Conserve water for other operations



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***APPLICATION:***

Student to practice until proficient.

***EVALUATION:***

A performance examination.

***ASSIGNMENT:***

To be determined by instructor(s).

# Performance Examination

HOW TO VENTILATE USING A  
FOG STREAM

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## POINTS

### TIME START

- |    |   |           |
|----|---|-----------|
| 1. | Students enter smoke filled room on hands and knees with a charged 1 1/2" hoseline  | <u>10</u> |
| 2. | Students open window from inside and remove all screens, blinds, curtains and obstacles to free flow of air                     | <u>20</u> |
| 3. | Students inspect outside window for energized electrical lines or equipment, uncovered high value items or personnel            | <u>20</u> |
| 4. | Assuming none present, nozzle operator adjusts nozzle to 60o fog pattern, position nozzle approximately 2 feet back from window | <u>20</u> |
| 5. | Student opens nozzle and adjusts distance from window until 85 - 90% of window opening is covered                               | <u>20</u> |
| 6. | Student continues to discharge water until room clears  | <u>10</u> |

### TIME STOP

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

**POINTS POSSIBLE:** 100

**POINTS DEDUCTED:**

**FINAL SCORE:**

**EVALUATOR'S SIGNATURE:**

**DATE:**

**COMMENTS:**