



# Fire Protection Training

Procedures Handbook 4300

TOOLS & EQUIPMENT

**TOPIC:** How to Ignite and Extinguish Road Flares and Fusees

**TIME FRAME:** 20 Minutes

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* A road flare or fusee and a cleared area

*Behavior:* Student will demonstrate the proper procedures for igniting and extinguishing a road flare or fusee under simulated fire conditions.

*Standard:* With a minimum of 100% accuracy within 1 minute

**MATERIALS NEEDED:**

- One road flare per student
- Cleared area
- Full safety clothing
- Stop watch
- Performance examination
- Tally sheets

**REFERENCES:** None

**PREPARATION:**

Road flares and fusees are used interchangeably as warning devices to stop, slow, or divert traffic and as firing devices. Each burns at approximately 1400oF and can drip or splatter hot phosphorus. The vapor emitted during burning are toxic. Care must be exercised to prevent injuries to personnel and equipment.



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HOW TO IGNITE AND EXTINGUISH  
ROAD FLARES AND FUSEES

## OPERATIONS

## KEY POINTS

### IGNITING

1. Grasp flare/fusee
  - 1a. With either hand
  - b. Near base
  - c. Full safety uniform
  - d. Gloves on
  - e. Goggles/face shield in place
  - f. Back to wind
2. Remove flare cap
  - 2a. Use free hand
  - b. Grasp flare/fusee cap
  - c. Twist either direction
  - d. Exposing igniter
3. Remove striker cap
  - 3a. Place thumb under edge
  - b. Force upward
  - c. Exposing striker
4. Place igniter and striker together
  - 4a. Fusee/flare with exposed igniter in one hand
  - b. Fusee/flare cap with exposed striker in the other
5. Ignite flare/fusee
  - 5a. Hands fully extended from body
  - b. Eyes turned away from flare/fusee and striker
  - c. Rapidly rub striker across igniter
  - d. With movement of flare/fusee away from the body
  - e. Repeat steps a - d until ignited
6. Hold ignited flare
  - 6a. At arm's length from body
  - b. Pointed away from body
  - c. Do not look directly at flame
  - d. Do not inhale toxic smoke





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***APPLICATION:***

Student to practice until proficient.

***EVALUATION:***

A performance examination.

***ASSIGNMENT:***

To be determined by instructor(s).

## POINTS

TIME START

### **IGNITING**

1. Grasp the flare or fusee near the base with back to the wind. 15
2. Remove the flare/fusee cap to expose the igniter, by twisting off in either direction. 10
3. Remove the striker cap to expose the striker. 10
4. Position the igniter and striker together and divert eyes away from the flare or fusee, with arms fully extended. 15
5. Move flare/fusee away from the body while rubbing striker forcefully across the igniter surface. Repeat steps 4 and 5 until flare/fusee ignited. 25

### **EXTINGUISHING**

6. While holding flare/fusee at arms length from the body, point the lighted end toward the ground. 10
7. Grind the flare/fusee's lighted end into the ground twisting back and forth. Repeat step 7 until extinguished fully. 15

TIME STOP

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

**POINTS POSSIBLE:** 100

**POINTS DEDUCTED:**

**FINAL SCORE:**

**EVALUATOR'S SIGNATURE:**

**DATE:**

**COMMENTS:**

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