



Fire Protection Training

Procedures Handbook 4300

MOBILE EQUIPMENT

TOPIC: Mobile Equipment Warning Devices

TIME FRAME: 30 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will be able to identify and describe each device and give examples of when each device should be used.

Standard: With a minimum of 70% accuracy

MATERIALS NEEDED:

- Engine with Code 3 equipment
- Appropriate audio visual aids
- Audio visual equipment

REFERENCES:

- CDF, Mobile Equipment Management Procedures Handbook, (6700)
- California Vehicle Code

PREPARATION: Every emergency vehicle has certain warning devices that are used to prevent accidents. These devices are designed to be recognized by audio (horns, sirens) and visual (lights) senses. To be effective, these have to be used in the proper manner and at the proper times. If used inappropriately, the likelihood of causing an accident increases dramatically.



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WARNING DEVICES

PRESENTATION	APPLICATION
<p>I. WARNING DEVICES - VISUAL</p> <p>A. Front Red - Steady Beam</p> <ol style="list-style-type: none">1. Required in conjunction with siren when responding "code 3"2. Not to be used as a roadside warning device <p>B. Front Red - Blinking</p> <ol style="list-style-type: none">1. Light used when responding "code 3"2. Not to be used as a roadside warning device <p>C. Roto-Beacon or Light-Bar (Red Rotating)</p> <ol style="list-style-type: none">1. A light used when responding "code 3"2. Allows public to see you from all directions3. Should not be used when Code 3 vehicle cannot keep up with the flow of traffic.<ol style="list-style-type: none">a. Emergency vehicle should not become an obstacle to normal traffic flow4. Not to be used as a roadside warning device <p>D. Rear Amber</p> <ol style="list-style-type: none">1. A warning light only	<p>Give instructions in cab of engine. Point out control mechanisms for each device</p> <p>(See rear Amber) i.e., freeways, uphill grades</p>



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<ul style="list-style-type: none">2. Can be used instead of rotating red when responding code 3 and you want to allow traffic to pass you<ul style="list-style-type: none">a. Freeway Drivingb. Uphill Grades3. Can be operated separately as a roadside warning device <p>E. Emergency Flashers (4-way)</p> <ul style="list-style-type: none">1. Cautionary lights to be used as a roadside warning device <p>F. "Wig-wag" Headlights</p> <ul style="list-style-type: none">1. Alternates headlights off and on<ul style="list-style-type: none">a. On high beam only2. Used to attract attention during "code 3" response	
<p>II. WARNING DEVICES - AUDIO</p> <p>A. Siren (Mechanical Or Electronic)</p> <ul style="list-style-type: none">1. Must be used when responding "code 3"2. Must use variable pitch<ul style="list-style-type: none">a. Only option on mechanical sirensb. More effective due to larger range of tones3. Electronic siren has other options. Most common are:<ul style="list-style-type: none">a. High-lowb. "Yelp"	



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<p>B. Backup Alarm</p> <ol style="list-style-type: none"><li>1. Electronic<ol style="list-style-type: none"><li>a. Usually activated when transmission is put in reverse<li>2. Mechanical<ol style="list-style-type: none"><li>a. Bell or horn that is activated when driveline or rear tires turn backward is not authorized for CDF vehicles. <p>C. Horns</p> <ol style="list-style-type: none"><li>1. Regular<ol style="list-style-type: none"><li>a. Used for normal warning during routine traffic<li>2. Air horn or electronic klaxton horn<ol style="list-style-type: none"><li>a. Used as warning, usually when more urgent<li>b. When approaching an intersection while responding "code 3"<li>3. Standard horn signals<ol style="list-style-type: none"><li>a. One honk<ol style="list-style-type: none"><li>(1) By crew member - Stop	<p>Not a substitute for horn signal prior to backing</p> <p>Fix-n-fax #13</p> <p>Short blast only - not a legal "code 3" warning device.</p>

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<ul style="list-style-type: none">b. Two honks<ul style="list-style-type: none">(1) By operator - I am moving forward(2) By crew member - Move forwardc. Three honks<ul style="list-style-type: none">(1) By operator - I am moving backwards(2) By crew member - Move backwardsD. Public Address (P. A.) System<ul style="list-style-type: none">1. Used to warn or communicate with firefighters and/or public <p>III. SAFETY</p> <ul style="list-style-type: none">A. Limit Use of Sirens or Loud Horns Near:<ul style="list-style-type: none">1. Hospitals2. Poultry ranches3. Horses with riders4. Animals in trailersB. Do Not "Sneak Up" On Other Traffic And Then Suddenly Sound Sirens Or Horns.	<p>This can create panic stops or other unpredictable behavior.</p>



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SUMMARY:

The use of emergency signaling devices is required while responding "Code 3" to emergencies. Each device has a special function and it is critical to know when each device should be employed.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).