



Fire Protection Training

Procedures Handbook 4300

MOBILE EQUIPMENT

TOPIC: Fire Apparatus Identification

TIME FRAME: 1 Hour

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will list and describe the criteria used to classify the different types of fire apparatus.

Standard: With a minimum of 70% accuracy

MATERIALS NEEDED:

- Chalkboard and chalk
- Flip charts
- Appropriate visual aids
- Audio visual equipment
- Various apparatus

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 14
- Field Operations Guide, ICS 420-I

PREPARATION:

Uniform standards have been developed under the ICS system for categorizing types of fire apparatus. By understanding these standards, firefighters will have the ability to anticipate what the capabilities, equipment and staffing are on a particular apparatus prior to its arrival.



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FIRE APPARATUS
IDENTIFICATION

PRESENTATION	APPLICATION
<p>I. FIREFIGHTING APPARATUS</p> <p>A. Engines</p> <ol style="list-style-type: none">1. A ground vehicle which carries: hose, water, personnel, and a pump capable of producing an effective fire stream2. ICS Types<ol style="list-style-type: none">a. Type I<ol style="list-style-type: none">(1) 1000 GPM pump(2) 400 gallons of water(3) 1200' of 2 1/2" hose(4) 400' of 1 1/2" hose(5) 20' ladder(6) 4 personnelb. Type II<ol style="list-style-type: none">(1) 500 GPM pump(2) 400 gallons of water(3) 1000' of 2 1/2" hose	<p>To be ICS Type I must meet all minimum criteria listed</p> <p>Most CDF Schedule A engines are Type I, but do not meet personnel criteria, therefore, they become Type II or lower</p>



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<p>(4) 500' of 1 1/2" hose</p> <p>(5) 20' ladder</p> <p>(6) 3 personnel</p> <p>c. Type III</p> <p>(1) 120 GPM Pump</p> <p>(2) 300 gallons of water</p> <p>(3) 1000' of 1 1/2" hose</p> <p>(4) 800' of 1" hose</p> <p>(5) 3 personnel</p> <p>d. Type IV</p> <p>(1) 50 GPM pump</p> <p>(2) 200 gallons of water</p> <p>(3) 300' of 1 1/2" hose</p> <p>(4) 800' of 1" hose</p> <p>(5) 3 personnel</p>	<p>The large majority of CDF Schedule B engines fall in this category</p>

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FIRE APPARATUS
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PRESENTATION					APPLICATION
3. CDF engine fleet					
	GPM	GPM	ICS		
MODEL #	MAIN	AUX	GALLONS	TYPE	
1	300	85	500	III	
5*	300	85	500	III	
8	500	N/A	1250	III*	
9	500	N/A	650	III*	
10*	300	N/A	500	III	
11	500	N/A	1250	III*	
12	300	N/A	500	III	
14*	500	N/A	500	III*	
15	500	N/A	500	III*	
16	1000	N/A	750	I	
17	500	N/A	750	III*	
NOTES:					
	*	Four wheel drive engines			
	**	With sufficient 2 1/2" hose and 20' ladder may become Type II engine			
B. Bulldozers					
1. A ground vehicle characterized by a front mounted blade utilized to construct: roads, fuel breaks, and firelines by moving earth.					
2. ICS types					
a. Type I (heavy)					
Example: Caterpillar D-7 or larger					
b. Type II (medium)					
Example: Caterpillar D-5 or D-6 (CDF)					
c. Type III (light)					
Example: Caterpillar D-4 (CDF)					
C. Heavy Equipment Transport					



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<ul style="list-style-type: none">1. A ground vehicle designed to carry fire control and construction equipment.2. ICS Types<ul style="list-style-type: none">a. Type I (heavy) Example: Capable of carrying caterpillar D-7 or largerb. Type II (medium) Example: Capable of carrying caterpillar D-5 or D-6c. Type III (light) Example: Capable of carrying caterpillar v D-4D. Water Tenders<ul style="list-style-type: none">1. A ground vehicle designed to carry a large quantity of water.2. ICS Types<ul style="list-style-type: none">a. Type I<ul style="list-style-type: none">(1) 300 GPM pump(2) 1000 gallons of waterb. Type II<ul style="list-style-type: none">(1) 1000 gallons of water minimum	<p>Can a CDF model #11 be considered a water tender? Yes</p> <p>What is the primary disadvantage of a Type II water tender? Has no pump</p>

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<p>E. Crew Transport</p> <ol style="list-style-type: none">1. Any vehicle designed primarily to transport personnel to an emergency incident or project.2. ICS Types<ol style="list-style-type: none">a. Type I<ol style="list-style-type: none">(1) Capable of carrying a minimum of 30 passengersb. Type II<ol style="list-style-type: none">(1) Capable of carrying a minimum of 20 passengersc. Type III<ol style="list-style-type: none">(1) Capable of carrying a minimum of 10 passengers <p>II. MUNICIPAL - STRUCTURAL FIREFIGHTING APPARATUS</p> <p>A. Traditional Typing</p> <ol style="list-style-type: none">1. Engines<ol style="list-style-type: none">a. Triple combination<ol style="list-style-type: none">(1) Hose(2) Water(3) Pumpb. Quad combination<ol style="list-style-type: none">(1) Hose	<p>CDF personnel staff approximately 578 Schedule A engines</p>



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<ul style="list-style-type: none">(2) Water(3) Pump(4) 163' of ground laddersc. Quint combination<ul style="list-style-type: none">(1) Hose(2) Water(3) Pump(4) 163' of ground ladders(5) 65' aerial ladder or elevating platform2. Trucks<ul style="list-style-type: none">a. Minimum requirement<ul style="list-style-type: none">(1) 163' of ground ladders and(2) 65' aerial ladder or elevating platformb. Functions<ul style="list-style-type: none">(1) Ventilation(2) Salvage(3) Rescue(4) Overhaul(5) Lighting(6) Extrication3. Rescue	



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<ul style="list-style-type: none"> a. Used primarily for medical aid calls b. Generally some extrication capability 4. Squad <ul style="list-style-type: none"> a. Historically used to carry extra personnel b. Modernly used as an "agency specific" apparatus 5. Ambulance <ul style="list-style-type: none"> a. Primary function is to provide transportation and basic life support for the sick or injured. 6. Paramedic Unit <ul style="list-style-type: none"> a. Primary function is to provide advanced life support for the sick or injured. 7. Other specialized apparatus <ul style="list-style-type: none"> a. Hazardous material unit b. Breathing support unit c. Mobile command post/communications unit d. Drowning accident rescue team (DART) e. Lighting unit f. Crash/rescue g. Fire boat 	<p>CDF operates 164 rescue units</p> <p>What are the squads in your area used for?</p>



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PRESENTATION	APPLICATION
h. Mobile kitchen	



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SUMMARY:

Many different types of apparatus are available for emergency response. Each has an intended use. Classifications to standardize apparatus nomenclature and complements have been developed. This standardization has improved operational efficiency on the fireground.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).