TOPIC: HOW TO PUMP FROM TANK, CDF ENGINE MODEL #1

TIME FRAME: :30

LEVEL OF INSTRUCTION: Level II

BEHAVIORAL OBJECTIVE:

Condition: A CDF model #1 engine with spring brake set, transmission in neutral, a full tank of water, a predetermined engine pressure of 150 PSI and the following items and conditions: Tank suction valve open, tank fill valve closed, suction inlet valve closed, a pre-connected 100 foot length of 1 ½" or 1 ¾" hose with nozzle attached laying on the ground.

Behavior: The student will: Start and chock the engine in accord with CDF policy, engage the main pump, charge an 1 ½" or 1 ¾" line, and deliver an uninterrupted stream of water to a simulated fire using the tank as a water source. The student will then return the apparatus to its original condition.

Standard: With a minimum of 70% accuracy, within 1 minute and 15 seconds, according to the job breakdown

MATERIALS NEEDED:

- One (1) CDF Model #1 engine with a full tank of water
- One (1) 100 feet of 1 ½" or 1 ¾" hose with nozzle and shut off
- One (1) Stop watch

REFERENCES:

- Vehicle Operation and Maintenance Guide, (CDF Handbook 6804)

PREPARATION: It is standard operating procedure in most fire departments to establish initial fire streams using tank water. The ability to expeditiously initiate a fire stream with tank water is a basic engine operator skill

OPERATIONS	KEY POINTS
1. Start main engine	1a. Place foot on service brake
	b. Allow engine to idle
2. Set chock blocks	2a. In accord with CDF policy
	b. Use gloves
	c. Failure to properly set chocks will be cause for failing the examination.
3. Place foot on brake	3a. Firmly apply brake
4. Engage midship pump	4a. Use pump lever/ switch
5. Shift transmission	5a. Into 2/4
6. Adjust pump panel throttle	6a. Until transmission shifts into 4th gear
7. Adjust pump panel throttle	7a. To indicate 150 PSI on midship pump pressure gauge
	b. $\pm$ 20 PSI
8. State "water coming"	8a. Loudly
9. Open discharge valve	9a. Slowly
	b. Completely
10. Adjust pump panel throttle	10a. To indicate 150 PSI on midship pump pressure gauge
	b. $\pm$ 20 PSI
TIME STOP	Student raises hands to indicate completion of timed portion of exam
	Failure to produce an effective fire stream will be cause for failing the examination.
11. State "SHUT DOWN"	11a. Loudly
12. Close discharge valve	12a. Slowly
	b. Completely
13. Adjust pump panel throttle	13a. Slowly
	b. Until main engine returns to idle

OPERATIONS	KEY POINTS
14. Return to cab	14a. Place foot on service brake
15. Shift transmission	15a. To neutral
16. Disengage midship pump	16a. Using pump lever/switch b. Acceptable to put transmission into reverse then back into neutral for ease in disengaging pump
17. Shift transmission	17a. Into a road gear b. With foot on brake c. Until lurch is felt
18. Shift transmission	18a. To neutral
19. Shut off main engine	
20. Return chock blocks	20a. To proper place

APPLICATION:

Student to practice until proficient.

EVALUATION:

A performance examination.

ASSIGNMENT:

To be determined by instructor(s).