



# Fire Protection Training

Procedures Handbook 4300

PUMPING

**TOPIC/EQUIPMENT:** PUMP FROM TANK, CDF ENGINE MODEL #10 OR #12

**CATEGORY:** Performance Examination

**POINTS POSSIBLE:** 100

**TIME ALLOWED:** 1 minute and 15 seconds

**BEHAVIORAL OBJECTIVE:**

*Condition:* A CDF Model #10 or #12 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, a preconnected 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 a 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:* Following steps and procedures, in proper sequence according to the attached score sheet, with a minimum 70% accuracy within 1 minute 15 seconds.

**MATERIALS NEEDED:**

- One (1) CDF Model #10 or #12 engine with a full tank of water
- One (1) 100' length of 1 ½" or 1 ¾" hose with nozzle and shut-off
- One (1) Stop watch
- One (1) Performance examination per student
- Two (2) Red pens for scoring
- One (1) Clipboard
- One (1) Tally sheet



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## **PROCEDURES:**

The examination will begin when the student either verbally or by conduct performs any step of the examination. The examination will end when the student either verbally or by conduct indicates the examination has been completed. At this time the evaluator will check to see that the engine pressure is properly set and that valves and controls are in the proper position.

## **SCORING:**

Points will be deducted for each step omitted, performed improperly or performed out of sequence. Lettered procedures may be performed in any sequence within the numbered step without a loss of points. Steps designated by an asterisk (\*) must be performed or the student fails the examination. A score of zero (0) will be given if during the examination the student performs any step or procedure that would jeopardize the safety of personnel or the equipment (i.e. pump engaged before chocks are set, no fire stream produced, transmission left in gear, etc.).

## **SPECIAL NOTES:**

Before the examination begins the student will be allowed to ask any clarifying questions and inspect the equipment. Once the examination begins the evaluator shall not answer any questions or intercede in any way unless safety violations occur that would injure personnel or damage equipment. The engine will have the spring brake set, the tank suction valve open and a 1 ½" or 1 ¾" discharge hose connected. The examination will begin with the student, in full wildland safety clothing, seated in the cab of the engine with the door closed and seat belt on.

# Score Sheet

PUMP FROM TANK, CDF ENGINE  
MODEL #10 OR #12

DATE \_\_\_\_ / \_\_\_\_ / \_\_\_\_ TEST # \_\_\_\_ RETEST # \_\_\_\_ UNIT # \_\_\_\_

STUDENT'S NAME \_\_\_\_\_

EVALUATOR'S NAME \_\_\_\_\_

## **STEPS AND PROCEDURES**

## **POINTS**

1. Place foot on service brake	5
2. Start main engine	10
TIME START	
3. Set idle at 1,200 RPM ( $\pm$ 200 RPM)	10
4. Set chock blocks in accord with CDF policy	*
5. Start pump engine	*
6. Adjust pump panel throttle to indicate 100 PSI ( $\pm$ 20 PSI) on the pump pressure gauge	*
7. Loudly state "water coming"	5
8. Slowly open discharge valve completely	5
9. Adjust pump panel throttle to indicate 150 PSI ( $\pm$ 20 PSI) on the pump pressure gauge	10

Student raises hands to indicate completion of timed portion of exam. If student has not produced an effective fire stream, a score of "0" will be given.

TIME STOP

ENTER TIME: \_\_\_\_\_

# Score Sheet

PUMP FROM TANK, CDF ENGINE  
MODEL #10 OR #12

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## STEPS AND PROCEDURES

## POINTS

10. Loudly state "shut down"	<u>5</u>
11. Slowly close discharge valve completely	<u>5</u>
12. Adjust pump panel throttle slowly until pump engine returns to idle	<u>10</u>
13. Idle pump engine for approximately 30 seconds	<u>5</u>
14. Shut off pump engine	<u>10</u>
15. Return to cab and place foot on service brake	<u>5</u>
16. Return main engine to idle	<u>10</u>
17. Shut off main engine	<u>5</u>

## EXAMINATION COMPLETED

Student will return chock blocks to proper place on engine

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

**POINTS POSSIBLE:** 100

**POINTS DEDUCTED:** \_\_\_\_\_

**FINAL SCORE** \_\_\_\_\_

## COMMENTS:

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