



MANIPULATIVE PERFORMANCE TEST

Procedures Handbook 4300

PUMPING

TOPIC/EQUIPMENT: PUMP FROM TANK, MAIN PUMP – MODEL 34 OR 35

CATEGORY: I

POINTS POSSIBLE: 100

TIME ALLOWED: Two minutes (00:2:00)

BEHAVIORAL OBJECTIVE:

Condition: A CAL FIRE engine (Model 34 or 35), with a full tank of water, and the following items and conditions: Tank suction valve open, tank fill valve set appropriately, suction inlet valve closed, a pre-connected 100 foot length of 1-½" or 1-¾" hose with a combination nozzle and a suitable area to safely deploy a hoseline and produce an effective fire stream. Student and assistant in appropriate PPE per CAL FIRE policy, less SCBA.

Behavior: The student will spot the engine, direct an assistant to pull the appropriate pre-connected hoseline and supply an uninterrupted stream of water, at 150 psi (± 20). After completing this evolution, the student will then return the apparatus to its original condition.

Standard: With a minimum of 80% accuracy within two minutes, according to the job breakdown.

MATERIALS NEEDED:

- One (1) CAL FIRE Model 34 or 35 engine with a full tank of water
- 100 feet of 1-½" or 1-¾" hose with a nozzle and shut off
- Performance exams
- Individual score sheets
- One (1) stop watch
- One (1) clip board
- Red pens
- One (1) assistant
- Appropriate PPE per CAL FIRE policy, less SCBA



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PROCEDURES:

The examination will begin when the student either verbally or by conduct performs any step of the examination. Time starts when the spring brake is set. Time stops when the student indicates either verbally or by conduct they have achieved adequate hose stream. 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. The examination will end when the student either verbally or by conduct indicates the examination has been completed.

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 a Pass/Fail 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.

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 could injure personnel or damage equipment.

Score Sheet

PUMP FROM TANK, MAIN PUMP – MODEL 34 OR 35

DATE ____ / ____ / ____ TEST # ____ RETEST # ____ UNIT # ____

STUDENT'S NAME _____

EVALUATOR'S NAME _____

STEPS AND PROCEDURES

	<u>POINTS</u>
1. Spot engine at designated location	<u>10</u>
2. Shift transmission to neutral	<u>Pass/Fail</u>
3. Set spring brake - TIME STARTS	<u>Pass/Fail</u>
4. Place foot on service brake, and engage midship pump switch	<u>Pass/Fail</u>
5. Exit engine and set chock blocks in accordance with CAL FIRE policy	<u>Pass/Fail</u>
6. Instruct assistant to deploy a pre-connected 1-½" or 1-¾" hoseline	<u>10</u>
7. Move tank suction valve switch on pump panel to the "OPEN" position	<u>Pass/Fail</u>
8. Cycle transfer valve switch on pump panel to the "PRESSURE" position	<u>10</u>
9. Press "preset" on Pump Boss (preset to 100 psi engine pressure)	<u>10</u>
10. Ensure assistant is ready for water by loudly stating "Water coming"	<u>Pass/Fail</u>
11. Charge hoseline	<u>Pass/Fail</u>
12. Increase pump pressure 150 psi (±20 psi)	<u>10</u>
13. Achieve adequate hose stream of 150 psi (±20 psi) with all valves and controls in the appropriate position	<u>10</u>

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Score Sheet

PUMP FROM TANK, MAIN PUMP – MODEL 34 OR 35

TIME STOPS WHEN THE STUDENT INDICATES EITHER VERBALLY OR BY CONDUCT THEY HAVE ACHIEVED ADEQUATE HOSE STREAM

- | | | |
|-----|---|------------------|
| 14. | Open tank fill valve | <u>15</u> |
| | a. Achieve 10 psi pressure drop – TIME STOPS | |
| 15. | Notify assistant to shut down hoseline by loudly stating, "Shut Down" | <u>10</u> |
| 16. | Close the discharge valve | <u>15</u> |
| | a. Slowly and completely | |
| | b. Shut down the hoseline prior to shutting down pump | |
| 17. | Return pump to idle | <u>Pass/Fail</u> |
| | a. Press red "idle" button on pump panel Pump Boss | |
| 18. | Return to cab and place foot on service brake | <u>Pass/Fail</u> |
| 19. | Move the pump switch to the "ROAD" position | <u>Pass/Fail</u> |
| 20. | Shift transmission to road gear to ensure the pump is disengaged | <u>Pass/Fail</u> |
| 21. | Return transmission to neutral | <u>Pass/Fail</u> |

EXAM ENDS

Student is to return engine to response ready condition

- Re-bed fire hose on engine
- Refill water tank if needed

