



# Performance Examination

4100 Sub JAC Handbook

MOBILE PUMPING

**TOPIC:** JAC PERFORMANCE EXAM

**CATEGORY:** Mobile Pumping

**POINTS POSSIBLE:** 100 points

**TIME ALLOWED:** 2 minutes

**BEHAVIORAL OBJECTIVE:**

*Condition:* A CAL FIRE engine with a hydrostatic pump, a full tank of water, and the following items and conditions: Tank suction valve open, pressure relief valve off, tank fill valve set appropriately, suction inlet valve closed, a pre-connected 15' to 25' - 1 ½" or 1 ¾" hose with nozzle and an area suitable for mobile attack pumping.

*Behavior:* The apprentice will spot the engine, direct a crewmember to pull the appropriate pre-connected 1 ½" or 1 ¾" hose, adjust pump stroke to 100 PSI (± 20), and set pressure relief valve. The apprentice will drive and have crewmember mobile pump for at least 50 feet. The apprentice will then return the apparatus to its original condition.

*Standard:* Following steps and procedures according to the attached score sheet, with a minimum 80% accuracy.

**MATERIALS NEEDED:**

- One (1) CAL FIRE engine with hydrostatic pump
- One (1) 15 – 25 ft. length of 1 ½" or 1 ¾" hose with nozzle
- One (1) crewmember
- Wildland PPE for apprentice, and crewmember in full wildland PPE.

**PROCEDURES:**

The examination will begin when the apprentice spots the engine in the location designated by the proctor. The examination will end when the apprentice 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.



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## **SCORING:**

Points are assigned for each step completed correctly. For each step missing or performed incorrectly, the points will be deducted. If any step is Pass/Fail, it must be completed correctly to receive a passing score. If the step is scored as Fail, it will result in failure of the performance test not just that step.

If there are no "Fail" steps, any missed points are deducted from the 100 points and the final score is determined. If there are any "Fail" steps, that will constitute a failure of the exam and a score of zero.

**A score of "zero" will be given if during the examination the FAE performs any step or procedure that would jeopardize the safety of personnel or damage the equipment (i.e. relief valve not set, no fire stream produced, etc.**

## **SPECIAL NOTES:**

Before the examination begins the apprentice 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.



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DATE \_\_\_\_ / \_\_\_\_ / \_\_\_\_ NAME \_\_\_\_\_

PROCTOR'S NAME: \_\_\_\_\_ YEAR:  - 3<sup>RD</sup>

## STEPS AND PROCEDURES:

Points

### TIME STARTS WHEN THE APPRENTICE SPOTS THE ENGINE AS DIRECTED

- |   |                  |
|---|------------------|
| 1. Spot engine safely in order to prepare for mobile pumping operations   | <u>10</u>        |
| a. Transmission to neutral  |                  |
| b. Set spring brake   |                  |
| c. Windows rolled up  |                  |
| 2. Designate anchor point by verbally advising crewmember   | <u>Pass/Fail</u> |
| 3. Have crewmember deploy the correct hoseline for mobile pumping   | <u>10</u>        |
| 4. Place the transfer valve in the "pressure position"  | <u>5</u>         |
| 5. Adjust the hydrostatic pump control lever with the minimum amount of stroke to 100 psi (± 20 PSI)                      | <u>5</u>         |
| 6. Turn pressure relief valve on and set correctly to 100 psi (± 20 PSI)  | <u>Pass/Fail</u> |
| 7. Place transmission and/or transfer case in the correct positions   | <u>10</u>        |
| a. <b><u>For a model #5 or #14:</u></b> place the transfer case in low range 4 wheel drive and transmission in first gear |                  |
| b. <b><u>For a model #15:</u></b> place the transmission in first gear  |                  |
| 8. Have crewmember charge hoseline  | <u>5</u>         |
| 9. Release spring brake   | <u>5</u>         |

**EXAMINATION CONTINUES BUT IS NOT TIMED**

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



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10. Drive along a simulated fireline; controlling the engine's speed with the foot throttle and/or service brake, as necessary. The evaluator will tell the apprentice when the fireline is complete. \_\_\_\_\_  
10

11. Notify crewmember you are shutting down the mobile pumping operation and stop engine using service brake (don't slam on brakes) \_\_\_\_\_  
5

12. Shut down mobile pumping operation \_\_\_\_\_  
10

a. Place transmission in neutral

b. Apply spring brake

13. Disengage pump by moving the pump control lever to the road position \_\_\_\_\_  
10

14. Turn pressure relief valve to the OFF position \_\_\_\_\_  
10

Return engine to response ready condition \_\_\_\_\_

**EXAMINATION ENDS**

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

**TOTAL POINTS POSSIBLE:** 100

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

**ENTER THE FINAL SCORE:** \_\_\_\_\_

**LESS THAN 80 POINTS, OVER TIME OR ANY STEP MARKED AS FAIL:** Fail

**COMMENTS:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_