



Fire Protection Training

Procedures Handbook 4300

HOSE

TOPIC: How to Make Hydrant Connections Using Soft Suction Hose

TIME FRAME: 45 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A fire department engine equipped with a 2 1/2" soft suction hose, a hydrant and a standard brass complement

Behavior: The student will hook a fire engine to a hydrant using a 2 1/2" soft suction hose under simulated fire conditions.

Standard: With a minimum of 70% accuracy, within two minutes

MATERIALS NEEDED:

- A fire engine equipped with 2 1/2" soft suction hose
- A hydrant
- Stop watch
- A performance examination
- Hydrant wrench
- Universal spanners
- Safety equipment

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 10
- IFSTA, Hose Practices, 7th Edition, Chapter 1

PREPARATION: When lines are laid from fire to hydrant (reverse lay), it will be necessary to connect the pump to the hydrant with a soft suction hose. This lay is used when it is necessary to pump large volumes of water such as supplying master streams and/or pumping to multiple hand lines.



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HOW TO MAKE HYDRANT
CONNECTIONS USING SOFT
SUCTION HOSE

OPERATIONS

KEY POINTS

- | OPERATIONS | KEY POINTS |
|---|---|
| 1. Remove hydrant cap | 1a. Turn counter-clockwise
b. Use hydrant wrench if cap is stuck |
| 2. Inspect hydrant | 2a. Damaged
b. b. Knocked loose
c. Firmly attached to riser
d. Appears serviceable
e. Look for debris inside outlet |
| 3. Place hydrant wrench on hydrant valve | 3a. Tightly |
| 4. Open hydrant | 4a. Slowly
b. Fully
c. Until water runs clear |
| 5. Close hydrant | 5a. Fully
b. Slowly |
| 6. Place hose coupling on hydrant | 6a. On unused outlet
b. Female swivel
c. Clockwise until tight |
| 7. Close tank suction valve and tank fill valve | |
| 8. Remove pump suction inlet cap | 8a. Counter-clockwise
b. Use mallet or spanner if stuck |
| 9. Position 2 1/2" soft suction hose | 9a. On ground
b. Near suction inlet |
| 10. Connect 2 1/2" soft suction hose to suction inlet | 10a. Clockwise until tight |
| 11. Open hydrant | 11a. Slowly
b. All the way |
| 12. Tighten any connection that leaks | 12a. Use mallet, hydrant wrench or spanner |

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APPLICATION:

The student will practice until proficient.

EVALUATION:

A performance examination.

ASSIGNMENT:

To be determined by instructor(s).

Performance Examination

HOW TO MAKE HYDRANT
CONNECTIONS USING SOFT
SUCTION HOSE

POINTS

TIME START

- | | |
|--|-----------|
| 1. Remove hydrant cap. | <u>5</u> |
| 2. Inspect hydrant for damage and serviceability. | <u>5</u> |
| 3. Place hydrant wrench on hydrant valve. | <u>10</u> |
| 4. Flush hydrant until water flows clear, then close hydrant slowly. | <u>10</u> |
| 5. Place female hose coupling on hydrant. | <u>10</u> |
| 6. Close tank suction valve and tank fill valve. | <u>10</u> |
| 7. Remove pump suction inlet cap. | <u>10</u> |
| 8. Position 2 1/2" soft suction hose near pump suction inlet. | <u>10</u> |
| 9. Connect 2 1/2" soft suction hose to pump suction inlet. | <u>10</u> |
| 10. Open hydrant slowly and fully. | <u>10</u> |
| 11. Tighten any connection that leaks. | <u>10</u> |

TIME STOP

ENTER TOTAL TIME: _____:

POINTS POSSIBLE: 100

POINTS DEDUCTED:

FINAL SCORE:

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EVALUATOR'S SIGNATURE:

DATE:

COMMENTS:
