Massena Volunteer Fire Department
Drill – August 7, 2017
Drill No: 2017-MSS-019

Session(s): 1

Topic: Water Supply Skills Refresher

Instructor(s): J. Macaulay

Officer(s):

Time Required: 1.5 hours

Materials:

- Hydrant
- Career Staff (1)
- Engine 28 or 31
- Port-a-Tank (2)
- Hydrant Bag

References:

- The Firefighter's Handbook - Essentials of FireFighting & Emergency Response – New York Edition 2nd Edition Pages

PREPARATION:

Drill Set-up:

WATER SUPPLY

1. Notify career staff in advance of drill needs for truck and driver to ensure manpower
2. Set-up two port-a-tanks at end of driveway with hydrant leaving room for apparatus to get by
3. Position engine so that it can draft from tanks without blocking driveway
4. Cover safety brief before commencing drill
5. Attached skills sheets are meant for instructor use for drill planning

SAFETY REMINDERS:

1. Remind students of the following:
    a. Tighten caps on outlets not used.
    b. Do not stand in front of closed caps.
    c. Open & Close the Hydrant Slowly
    d. Do not flow without adequate drainage.
    e. Do not flow across a busy street.
    f. Do not flow onto street in freezing weather.
    g. Control pedestrian and vehicle traffic as necessary.

Training Objectives (TO):

TO-1: PPE

Students shall demonstrate, during the performance of all tasks the proper use of appropriate PPE in accordance with the attached skill sheets. Specifically, they must ensure completion of the following critical skills:

1. Selects appropriate PPE for task at hand and dons it properly

TO-2: Water Supply Skills Refresher

Students shall satisfactorily demonstrate the following per the skills sheets:

1. Properly opens and closes hydrant
    a. Firefighter opens hydrant slowly and closes slowly
    b. Checks for damage prior to use
    c. Flushes hydrant appropriately
    d. Can identify difference between dry and wet barrel hydrant
    e. After closing places hand over open port and feels for vacuum
    f. Verbally describes how to report a damaged hydrant
2. Be able to locate the equipment for “ALCOA CONNECTION”
3. Making a soft sleeve connection to a hydrant
4. Deploying and use of port-a-tank
5. Advancing and use of hose lines
6. Ability to operating automatic nozzles and understanding of fire streams
7. Ability to roll hose
8. Ability to reload cross lay

DRAFTING FROM A STATIC WATER SUPPLY

Skills Evaluation Checklist

Skill: Connect and place a hard-suction hose for drafting from a static water source.

	Task Steps	Yes	No
1.	Confirm order with officer to connect hose for drafting.		
2.	Check the hard-suction couplings. a. Remove any dirt or debris b. Replace worn or frayed coupling gaskets		
3.	Connect the sections of hard-suction hose. a. Align sections b. Hand tighten in clockwise direction c. Use rubber mallet to make airtight connection, if necessary d. Keep off of ground		
4.	Connect the strainer to one end of the hard-suction hose. a. Hand tighten in clockwise direction b. Using rubber mallet to make airtight connection, if necessary c. Fasten rope to strainer		
5.	Put the strainer into the water; if a barrel strainer, use the rope to maneuver the hose and to keep the strainer off the bottom.		
6.	Prepare pump intake for coupling by removing pump intake cap and keystone intake valve from intake, if applicable.		
7.	Connect the hard-suction hose to the pump intake, aligning the sections and hand tightening in a clockwise direction.		

8.	Tie strainer rope (if used) to pumper or stationary object.		
9.	Dismantle drafting equipment and return to proper storage on pumper per departmental SOPs.		

MAKING A HYDRANT CONNECTION

Skill Evaluation Checklist

Skill: Make soft-sleeve and hard-suction hydrant connections.

	Task Steps	Yes	No
	Soft-Sleeve Connection		
1.	Confirm order with officer to make hydrant connection.		
2.	Remove necessary equipment from the pumper. a. Hydrant or spanner wrench b. Reducer (if necessary) c. Rubber mallet (if needed)		
3.	Remove the hydrant cap by turning it counterclockwise and using a spanner wrench if the cap is tight.		
4.	Inspect the hydrant for exterior damage and check for debris or damage in inside outlet.		
5.	Place the hydrant wrench on hydrant nut with handle pointing away from outlet.		
6.	Determine if adapter is preconnected. a. If adapter is preconnected to the hose: Proceed to step 7 b. If adapter is not preconnected: Place the reducer adapter on the hydrant, turning clockwise and making hand tight		
7.	Remove the intake hose from the pumper.		
8.	Connect the intake hose to the pump intake, turning clockwise and making hand tight.		
9.	Stretch the intake hose to the hydrant, placing two full twists in the hose to prevent kinking.		
10.	Make the hydrant connection to steamer outlet or outlet with adapter, turning clockwise and making hand tight.		
11.	Open the hydrant slowly until hose is full.		
12.	Tighten any leaking connections using rubber mallet or spanner wrench.		

OPERATE A HYDRANT

Skills Evaluation Checklist

Skill: Operate a hydrant.

	Task Steps	Yes	No
1.	As a safety precaution, tighten hydrant outlet caps that will not be used. a. Turn caps clockwise b. Use appropriate tools		
2.	Turn outlet nut counterclockwise and remove the cap from one outlet. a. Stand clear of closed caps		
3.	Open the hydrant. a. Use tools to slowly turn hydrant nut appropriate direction, typically counterclockwise b. Continue until fully open c. Stand clear of closed caps d. Do not lean over top of hydrant		
4.	Close the hydrant. a. Use tools to slowly turn hydrant nut appropriate direction, typically clockwise b. Continue until fully closed c. Check to see that the hydrant is draining if it is a dry-barrel style		
5.	Replace cap on outlet. a. Turn outlet nut appropriate direction, typically clockwise, until firmly closed b. Stand clear of closed caps		

Port-a-Tank Operations

Skills Evaluation Checklist

Skill: Deploy a portable water tank.

	Task Steps	Yes	No
1.	Remove the tarps from the apparatus.		
2.	Carry the tarps to the planned location for the water reservoirs. a. Location provides easy access from multiple directions b. Location allows other apparatus access to the fire scene		
3.	Open the tarps and spread them flat on the ground.		
4.	Remove the portable tank, jet siphon, and manufacturer's setup instructions from the apparatus. a. Use proper lifting techniques b. Carry to the setup location		
5.	Set up two portable tanks within departmental time limits (if specified) per manufacturer's instructions.		
6.	Connect the intake and discharge hoses to the jet siphon per manufacturer's instructions.		
7.	Position the jet siphon properly to draw and discharge water per manufacturer's instructions.		
8.	Dismantle the portable tanks following manufacturer's instructions.		
9.	Shake and fold the tarps.		
10.	Return equipment to the proper storage locations on the apparatus.		