



# Indiana Firefighter Training System



A Division of Indiana Department of Homeland Security

## **DRIVER OPERATOR MOBILE WATER SUPPLY PRACTICAL SKILLS AND EXAMINATION HANDBOOK**



### **LEAD EVALUATOR HANDBOOK**

#### **Reference material needed for this course:**

NFPA 1002: Standard for Fire Apparatus Driver/Operator Professional Qualifications  
IFSTA, Pumping Apparatus Driver/Operator Handbook, 2<sup>nd</sup> Edn. (Ch. 2, 3, 4, 5, 10, 14)



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### Skill Sheet # 1, Preventative Maintenance

Perform the specified routine tests, inspections and servicing functions specified in the following list given a fire dept. tender and it's manufacturer's specifications, so that the operational status of the tender is verified. *(NFPA 1002, 2009 Edition, 4.2.1; 10.1.1)*

#### Equipment & Materials

- Fully equipped tender apparatus
- Forms to Fill Out
- Access to dept. policies and procedures
- Equipment to complete the task

Task Steps	
1.	Battery
2.	Breaking System
3.	Coolant and Hydraulic Fluid
4.	Electrical Systems
5.	Fuel
6.	Oil
7.	Tires
8.	Steering System
9.	Belts
10	Tools/Appliances
11	Inspect water tank and water level in accordance with departmental policies

Prevent or prohibit any unsafe acts.

Contact the Lead Evaluator at any time with any questions

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(Continuation of Page 1, Skill Sheet #1)

Date of Inspection	Apparatus	Personnel Completing Inspection

Engine Running	Item
1	Gauges-Ammeter, oil pressure, water temperature, air pressure vacuum
2	Windshield wipers and washer fluid
3	All window glass and reflectors
4	Heater Defroster / Air Conditioning
5	Brakes (foot and parking)
6	Horns, sirens, emergency lighting (rotating and fixed)
7	Engine Noises (normal, within manufacturer specifications)
8	Clutch-Transmission shifting manual and automatic, drive train operation
9	Steering
10	Leaks-water, fuel and oil
11	Head lights, tail stop and marker lights, emergency flashers
12	Water tank/extinguishing agent level(s)
13	Pumping systems (if applicable)
14	Rapid dump system (if applicable)
15	Foam systems (if applicable)
Engine Not Running	Item
16	Vehicle body
17	Wheels, tires (tread and depth) and lugs
18	Fuel tank and cap
19	Brake hoses, air hoses, steering linkage, suspension
20	Drain air tanks of moisture
21	Compartments and doors, mounted equipment
22	Engine transmission, rear end fluid levels
23	Pump oil level (if applicable)
24	Batteries, liquid levels and corrosion problems
25	Portable equipment for operation and liquid levels

**In the space below, explain any item(s) requiring service & any other important information:**




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### Skill Sheet #2, Operations

**Maneuver and position a mobile water supply apparatus at a water shuttle fill site, give a fill site location and one or more supply hose(s), so that the apparatus is correctly position, supply hose(s) are attached to the intake connections without having to stretch additional hose, and no objects are struck at the fill site. (NFPA 1002, 2009 Edition, 10.2.1)**

#### Equipment & Materials

- Hydrant Tools
- Operational Tender
- Fill Hose
- Hydrant or drafting fill site
- Spotter
- Traffic Control (if applicable)

Task Steps	
1.	Clears any debris or obstructions from hydrant
2.	Unscrews the cap from 1 discharge and flushes hydrant for 20 seconds
3.	Stage tender at fill site so to provide for connection of fill hose(s)
4.	Connects both sections of supply to the discharge points of the water supply
5.	Operate intake valves on tender to allow for fill
6.	Fill tender in a controlled manner to ensure tank is full without excess waste
7.	Disconnect fill hose(s) and prepare fill site for tender departure
8.	Depart fill site and move to a dump site

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### Skill Sheet # 3, Operations

**Maneuver and position a mobile water supply apparatus at a water shuttle dump site, given a dump site and a portable tank and no objects are struck at the dump site. (NFPA 1002, 2009 Edition, 10.2.2, 10.2.3)**

#### Directions

The student shall set up and provide a water shuttle dump site to include 2 or more reservoirs, shall demonstrate a method to maintain adequate water levels and transfer water from 1 tank to the other, provide for ease of operation for dumping apparatus and provide for an adequate fill site that allows for access and ease of filling for apparatus. Set up and draft water while maintaining a fire stream. Prior to training, check for any environmental concerns (i.e. watering restrictions). If an environmental concern is in place, evaluator can simulate the tank being full of water.

#### Equipment & Materials

- Operational Tender
- Location to perform

Task Steps	
1.	Establish a water shuttle dump site with two or more portable tanks
2.	Remove tank from tender and safely place on site
3.	Set up pumper for drafting from secondary dump tank
4.	Maneuver and position apparatus at the water shuttle dump site so that the apparatus is properly positioned, that water discharged from the apparatus enters the desired tank and that no objects are struck at the dump site
5.	Tender backs into position to the tank
6.	Ensures that the tank being dumped into is emptied first, and the water is transferred effectively from one tank to the other
7.	Ensure tank being drafted from is kept full during at least three dump evolutions
8.	Draft is achieved with pumper and fire stream produced and maintained
9.	Safely pull drain sleeve and walk out bladder of tank to drain water

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### Skill Sheet # 4, General

Given a fire department tender, demonstrate safe, efficient operation of the vehicle upon jurisdictional street and highways under conditions outlined below in the performance section. (NFPA 1002, 2009 Edition, 4.3.1; 10.1.1)

#### Directions

The student must complete all of the maneuvers while operating a tender.

#### Equipment & Materials

- Operational Tender
- Instruction before beginning

Task Steps	
1.	Four left turns
2.	Four right turns
3.	A straight section of urban business street or a two-lane rural road at least 1 mile in length
4.	One through-intersection and two intersections where a stop has to be made
5.	One railroad crossing
6.	One curve, either left or right
7.	A section of limited-access highway that includes a conventional ramp entrance and exit and a section of road long enough to allow two lane changes
8.	A downgrade steep enough and long enough to require down-shifting and braking
9.	An upgrade steep enough and long enough to require a gear changing to maintain speed
10	One underpass or a low clearance or bridge

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### Skill Sheet #5, Driving/Operating

The candidate, given a fire department tender, shall demonstrate safe, efficient operation of the vehicle within an established obstacle course to measure abilities and judgments in maneuvering within confined areas simulating general driving.

*(NFPA 1002, 2009 Edition, 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6)*

#### Equipment & Materials

- Operational Tender

Task Steps	
1.	The candidate shall back a vehicle from a roadway into restricted spaces on both sides of the vehicle, given a spotter, and restricted spaces (12' width) requiring 90 degree right hand and left hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions.
2.	The candidate shall maneuver a tender around obstructions on a roadway while moving forward and in reverse so that the vehicle is maneuvered through obstructions, without stopping to change direction of travel and without striking the obstructions.
3.	The candidate shall turn a tender 180 degrees within a confined space small enough that a U turn cannot be accomplished without stopping and backing up. The vehicle must be turned 180 degrees without striking obstructions within the given space.
4.	The candidate shall maneuver a tender in areas of restricted horizontal and vertical clearances so that the operator accurately judges the ability of the vehicle to pass through the openings of that no obstructions are struck.
5.	The candidate shall operate a tender by using defensive techniques under simulated emergency conditions, so that control of the vehicle is maintained.

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