



## PENNSYLVANIA STATE FIRE ACADEMY MOBILE WATER - DRIVER/OPERATOR (MWDO) SKILL STATIONS

### Mobile Water - Driver / Operator (MWDO) Skill Stations

NFPA 1002 - Chapters 4 and 10 (2017 Edition)

Station A	Preventive Maintenance	Mandatory Station
Station B	Driving on Public Roadways	Mandatory Station
Station C	Obstruction Navigation	Mandatory Station
Station D	Apparatus Pre-Use Inspection	Mandatory Station
Station E	Fill Site Operations	Mandatory Station
Station F	Dump Site Operations	Mandatory Station
Station G	Establish Dump Site	Mandatory Station
Station H	Fixed Equipment Operation	Mandatory Station

**NOTE:** For Skill Stations A, B, and C there are equivalencies that meet the competency criteria within these skill stations and will be accepted as successful completion of the stations. The following documentation is required:

- Skill Station A Preventative Maintenance: Valid CDL with no restrictions (Tank and Air Brake)
- Skill Station B Driving, Public Roadway: Valid CDL with no restrictions (Tank and Air Brake)
- Skill Station C Obstruction Navigation: Valid CDL with no restrictions (Tank and Air Brake)

**OR**

PSFA EVOT/EVDT/EVOC course, 16-hour (See notes below)

**Emergency Vehicle Operator Training (EVOT) OR Emergency Vehicle Driver Training (EVDT):** An EVOT **OR** EVDT certificate **MUST** indicate the type of apparatus / vehicle operated by the candidate to complete the obstacle course. If unable to verify type / size of apparatus utilized to complete the training, Station C becomes mandatory. The EVOT/EVDT **MUST** be an approved or recognized PSFA Local Level training course taught by a PSFA accredited instructor and be for both cognitive knowledge (i.e., classroom) and practical skills instruction.

**Emergency Vehicle Operators Course (EVOC):** If using EVOC for Station C (Navigation), the candidate **MUST** provide a certificate of attendance for a 16-hour Emergency Vehicle Operators Course (EVOC) in which the individual completed the course using the apparatus in question. If the candidate is unable to verify type / size of apparatus utilized to complete the training, Station C becomes mandatory. The EVOC **MUST** be an approved or recognized PSFA Local Level Training course taught by a PSFA accredited instructor and be for both cognitive knowledge (i.e., classroom) and practical skills instruction.

**To prove pre-existing competency in a skill station, ALL documentation MUST be submitted with the application before beginning the test process.**



## PENNSYLVANIA STATE FIRE ACADEMY MOBILE WATER - DRIVER/OPERATOR (MWDO) SKILL STATIONS

<b>STATION A – Preventive Maintenance</b>		<b>Reference NFPA 1002 (2017 Ed), Chapter 4 Mandatory Station JPRs 4.2.1, 4.2.2</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Evaluator Note:** If a task (i.e. foam system) is not applicable, please mark *n/a* and provide a comment, then calculate PASS on all remaining tasks. Also, candidates **MUST conduct the air brake checks:** pressure leakage (brake applied and not applied); low air warning; spring-brake activation; air pressure build; lug test; and service check.

**Directions:** Using appropriate PPE and given the manufacturer’s specifications, and local procedures, perform visual and operational checks on the systems and components of a fire department apparatus, and service and correct (as able) any deficiencies found so that the operational status of the apparatus is verified. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **15 of 15** tasks being correctly performed.

No.	Tasks	Yes	No
1	Checks battery(s) for condition, connections, charging, and fluid		
2	Checks brake system for damage, leaks, and all checks noted in the evaluator notes		
3	Checks coolant system for leaks, hose conditions, and system integrity		
4	Checks vehicle electrical system, including functionality of all components		
5	Checks fuel system integrity		
6	Checks hydraulic fluids and system integrity (if applicable)		
7	Checks oil and other fluids for capacity and system integrity		
8	Checks tire thread depth, thread wear, condition, and pressure		
9	Checks steering system for smooth operation, fluid levels, excessive free play and integrity		
10	Checks belts for wear, tension, and condition		
11	Checks that all tools, appliances and equipment are securely mounted		
12	Checks built-in safety features (if applicable)		
13	Recognizes a system problem(s) and document on departmental forms the visual and operational checks and reports any deficiencies according to policies (4.2.1)		
14	Utilizes hand tools to correct any noted problem in accord with department policy (if applicable) (4.2.1)		
15	Completes all tasks without compromising personal safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

**Evaluator Comments:** \_\_\_\_\_  
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**Evaluator Signature:** \_\_\_\_\_ **Evaluator #** \_\_\_\_\_



## PENNSYLVANIA STATE FIRE ACADEMY MOBILE WATER - DRIVER/OPERATOR (MWDO) SKILL STATIONS

<b>STATION B – Driving on Public Roadways</b>		<b>Reference NFPA 1002 (2017 Ed), Chapter 4 Mandatory Station JPR 4.3.1</b>	
Test Site	Test Date	Candidate #	Check the Test Type ____ Initial ____ Retest

**Directions:** Operate a fire department vehicle, given a vehicle and a predetermined route on a public roadway that incorporates the maneuvers and features as specified in the following tasks which a driver/operator is expected to encounter during normal operations, so that the vehicle is safely operated in compliance with all applicable state and local laws and departmental rules and regulations. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **17 of 17** tasks being correctly performed.

No.	Tasks	Yes	No
1	Utilizes passenger restraint systems as appropriate		
2	Adjusts mirrors, seat height and steering wheel as appropriate		
3	Scans dashboard instruments routinely and can provide instrument information		
4	Negotiates four left and four right turns		
5	Negotiates a straight section of urban business street or two-lane rural road of at least 1 mile (1.6 km) in length		
6	Negotiates one through-intersection and two intersections where a stop must be made		
7	Negotiates one railroad crossing		
8	Negotiates one curve (either left or right)		
9	Negotiates a section of limited-access highway which includes a conventional ramp entrance and exit, and a section of road long enough to allow two lane changes.		
10	Negotiates a downgrade steep and long enough to require down-shifting and braking		
11	Negotiates an upgrade steep and long enough to require gear change to maintain speed		
12	Negotiates one underpass or a low clearance bridge		
13	Maintain safe following distance with other vehicles throughout the trip		
14	Identifies the height, weight, and length of the apparatus		
15	Operates apparatus in accordance with all applicable posted speed limits, lane restrictions and height/weight restrictions		
16	Completes all tasks without compromising personal safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

**Evaluator Comments:** \_\_\_\_\_

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## PENNSYLVANIA STATE FIRE ACADEMY MOBILE WATER - DRIVER/OPERATOR (MWDO) SKILL STATIONS

<b>STATION C – Navigating Obstructions</b>		<b>Reference NFPA 1002 (2017 Ed), Chapter 4 Mandatory Station JPRs 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** Operate a fire department vehicle, given a vehicle and a predetermined route on a public roadway which incorporates the maneuvers and features specified in the following tasks which a driver/operator is expected to encounter during normal operations, so that the vehicle is safely operated in compliance with all applicable state and local laws and departmental rules and regulations. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **6 of 6** tasks being correctly performed.

No.	Tasks	Yes	No
1	Back a vehicle from a roadway into a restricted space from both the right and left sides of the vehicle, given a fire department vehicle, a spotter, and restricted spaces 12ft (3.66 m) in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted area without having to stop and pull forward and without striking obstructions.		
2	Operate the vehicle around roadway obstructions while moving forward and in reverse, given a fire department vehicle, a spotter for backing, and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change direction of travel and without striking obstructions.		
3	Turn a fire department vehicle 180 degrees within a confined space, given a fire department vehicle, a spotter for backing, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the confined space.		
4	Maneuver a fire department vehicle in areas with restricted horizontal and vertical clearances, given a fire department vehicle and a course requiring the operator to move through areas with restricted horizontal and vertical clearances, so that the operator accurately judges the ability of the vehicle to pass through the openings and that no obstructions are hit.		
5	Operate a fire department vehicle using defensive driving techniques under emergency conditions so that vehicle control is maintained.		
6	Demonstrates ability to utilize mirrors while operating the apparatus		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

**Evaluator Comments:** \_\_\_\_\_  
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## PENNSYLVANIA STATE FIRE ACADEMY MOBILE WATER - DRIVER/OPERATOR (MWDO) SKILL STATIONS

<b>STATION D – Apparatus Pre-Use Inspection</b>		<b>Reference NFPA 1002 (2017 Edition), Chapters 10 &amp; 4 Mandatory Station: JPRs 10.1.1, 4.2.2</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Evaluator Note:** If a task (i.e. foam system) is not applicable, please note N/A the in comments, then calculate PASS based on the remaining applicable “Yes” marks.

**Directions:** Using appropriate PPE, perform routine tests, inspections and servicing functions in accordance with manufacturers’ recommendations so that operational readiness of the mobile water supply apparatus is verified. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **13 of 13** tasks being correctly performed.

No.	Tasks	Yes	No
1	Checks apparatus fuel level		
2	Checks & verifies proper operation of all installed visual & audible warning devices		
3	Performs a visual and operational check on the water tank and other extinguishing agents (if applicable)		
4	Performs a visual and operational check on the pump system		
5	Checks water dump system (manual, electric and/or pneumatic) and verifies appropriate operation		
6	Performs a visual and operational check on the jet / pump assisted water dump system (if applicable)		
7	Performs a visual and operational check on the foam system (if applicable)		
8	Checks and assures proper operation of installed passenger restraint systems and any other installed safety systems		
9	Checks any tools, appliances and equipment for proper mounting and operation		
10	Utilizes hand tools for inspection in accord with department policy (if applicable)		
11	Recognizes a system problem(s) and corrects deficiencies according to policies (if applicable)		
12	Document on departmental forms the visual and operational checks and reports any deficiencies		
13	Completes all tasks without compromising personal safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

**Evaluator Comments:** \_\_\_\_\_  
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## PENNSYLVANIA STATE FIRE ACADEMY MOBILE WATER - DRIVER/OPERATOR (MWDO) SKILL STATIONS

<b>STATION E – Fill Site Operations</b>		<b>Reference NFPA 1002 (2017 Edition), Chapter 10 Mandatory Station: JPRs 10.2.1</b>	
Test Site	Test Date	Candidate #	Check the Test Type _____ Initial _____ Retest

**Directions:** Given a fill site location, maneuver and position your mobile water supply apparatus so that the apparatus is correctly positioned, supply hoses are attached to the intake connections without having to stretch additional hose, and no objects are struck at the fill site. Do you have any questions?

**Performance Outcome:** Pass / Fail will be determined by **8 of 8** tasks being correctly performed.

No.	Tasks	Yes	No
1	Fill site is assessed for hazards (e.g., obstructions, other apparatus, terrain, slope, hose lines, etc.)		
2	A spotter is used for positioning (if required)		
3	Apparatus is safely maneuvered around any obstructions		
4	Apparatus is positioned according to applicable standards and departmental standard operating procedures		
5	Supply hoses can be connected to apparatus without having to add additional hose or reposition the apparatus		
6	Apparatus wheels are chocked (if applicable)		
7	Apparatus is appropriately maneuvered out of fill site once operation is complete		
8	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

**Evaluator Comments:** \_\_\_\_\_

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## PENNSYLVANIA STATE FIRE ACADEMY MOBILE WATER - DRIVER/OPERATOR (MWDO) SKILL STATIONS

<b>STATION F – Dump Site Operations</b>		<b>Reference NFPA 1002 (2017 Edition), Chapter 10 Mandatory Station: JPRs 10.2.2</b>	
Test Site	Test Date	Candidate #	Check the Test Type ____ Initial ____ Retest

**Directions:** Given a dump site location, maneuver and position your mobile water supply apparatus so that the apparatus is correctly positioned, all water discharged from the apparatus enters the portable tank, and no objects are struck at the site. Do you have any questions?

**Performance Outcome:** Pass / Fail will be determined by **10 of 10** tasks being correctly performed.

No.	Tasks	Yes	No
1	Dump site is assessed for hazards (e.g., obstructions, other apparatus, terrain, slope, etc.)		
2	A spotter is used for positioning (if required)		
3	Apparatus is safely maneuvered around any obstructions		
4	Apparatus is positioned appropriate to assure water being discharged enters portable tank		
5	Apparatus wheels are chocked (if applicable)		
6	Remote or manual water dump activated		
7	Jet or pump assist utilized as appropriate (if equipped)		
8	Water discharged from apparatus enters portable tank		
9	Apparatus is appropriately maneuvered out of dump site upon completion		
10	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

**Evaluator Comments:** \_\_\_\_\_

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## PENNSYLVANIA STATE FIRE ACADEMY MOBILE WATER - DRIVER/OPERATOR (MWDO) SKILL STATIONS

<b>STATION G – Establish Dump Site</b>		<b>Reference NFPA 1002 (2017 Edition), Chapter 10 Mandatory Station: JPRs 10.2.3</b>	
Test Site	Test Date	Candidate #	Check the Test Type _____ Initial _____ Retest

**Directions:** Given the equipment available, establish a water shuttle dump site so the draft tank is always kept full, the tank being dumped into is emptied first, and the water is transferred efficiently from one tank to the next. Do you have any questions?

**Performance Outcome:** Pass / Fail will be determined by **9 of 14** tasks being correctly performed.

No.	Tasks	Yes	No
1	Appropriate area selected for dump site		
2	Portable water tanks deployed & appropriately positioned (minimum of 2 required)		
3	Selects proper suction hose(s), lengths, and sizes		
4	Selects proper strainer equipment		
5	Makes necessary hose and appliance connections		
6	Identifies pumper suction/intake connection		
7	Connects assembled hose/strainer assembly to pumper suction/intake port		
8	Places strainer in portable tank and secures assembly		
9	Limits potential for air siphoning as necessary		
10	Selects and assembles water transfer/jet siphon equipment		
11	Places assembled transfer device between portable water tanks & secures as appropriate		
12	Attaches transfer/jet siphon assembly to pump discharge and assures appropriate operation		
13	Water is transferred efficiently from one tank to the next		
14	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

**Evaluator Comments:** \_\_\_\_\_

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## PENNSYLVANIA STATE FIRE ACADEMY MOBILE WATER - DRIVER/OPERATOR (MWDO) SKILL STATIONS

<b>STATION H – Fixed Equipment Operations</b>		<b>Reference NFPA 1002 (2017 Edition), Chapter 4 Mandatory Station: JPR 4.3.7</b>	
Test Site	Test Date	Candidate #	Check the Test Type ____ Initial ____ Retest

**Directions:** Given system and equipment, manufacturer’s specifications and instructions, and departmental policies and procedures, operate in accordance with applicable instructions and policies all fixed systems and equipment on the apparatus not specifically addressed elsewhere in this standard. Types of equipment and systems include but are not limited to: electric generation equipment, lighting systems, air compressors, air cascade systems, hydraulic rescue tool systems, power reels for air or hydraulic hoses, cranes and stabilizers, and A-frames or other lifting equipment. Other equipment may include such items as portable pumps, exhaust fans, saws and cord reels. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **5 of 5** tasks being correctly performed.

No.	Tasks	Yes	No
	<b>List Equipment Operated:</b>		
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	Completes all tasks without compromising personal safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

**Evaluator Comments:** \_\_\_\_\_

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