

FIRE APPARATUS MOBILE WATER SUPPLY OPERATOR

PRACTICAL SKILLS CERTIFICATION EVALUATION PACKET

(NFPA Standard 1002, 2017 Edition)

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MOBILE WATER SUPPLY OPERATOR PRACTICAL SKILLS CORRELATION MAP

	CORE JOB PERFORMANCE REQUIREMENTS								
(NFPA 100	(NFPA 1002, 2017 Edition)								
Skill Sheet #	NFPA Section-	Tasks	Certification Examination Requirements: 1- Department Verified 3- Mandatory						
Practical Skills	Completed a	t Department Level for Application Packet Review							
MWSO 1	10.1.1	Perform Visual and Operation Checks	Dept. Verified						
MWSO 2	10.2.1	Maneuver and Position Apparatus- Fill Site	Mandatory						
MWSO 3	10.2.2	Maneuver and Position Apparatus- Dump Site	Mandatory						
MWSO 4	10.2.3	Establish Shuttle Dump Site	Mandatory						

Skill Sheet Packet Instruction

Purpose of the Skill Sheets

All skills listed in this packet are consistent with the 2017 edition of the NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. The Alaska Fire Standards Council (<u>AFSC</u>) provides these skill sheets as the basis for Mobile Water Supply Operator testing and certification.

For certification purposes, the final skill examination will consist of a series of mandatory skill stations listed on page 2 of this packet.

Description & Use

- 1. These skills sheets are designed for use by the Training Officer and Mobile Water Supply Operator candidate. Use of this packet throughout a training program will assist in verifying candidate competency and completion of the Mobile Water Supply Operator Training Record.
- For eligibility to complete the final certification examination, a candidate must demonstrate competency in all skills during training and satisfactorily compete all items on the Mobile Water Supply Operator training record document.
- 3. This packet is designed to encompass the requisite skills for Mobile Water Supply Operator these skill sheets are used for final testing and certification. Accreditation Managers/Training Officers and Mobile Water Supply Operator course instructors should utilize this evaluation packet during a course to prepare candidates for the certification exam. For a candidate's final skills evaluation, she or he must successfully perform each skill while being evaluated on performance competency by an AFSC examination representative.
- 4. The final skills examination will consist of skills selected from this packet. Skills are selected from the mandatory skills categories. This packet contains a list of all mandatory skills that are used for the final examination.
- 5. The Certifying Officer will notify candidates which skills they will be required to complete at the start of the practical skills portion on the date of the examination.
- 6. The completion of the Mobile Water Supply Operator Training Record establishes a candidate's eligibility to test. The Training Record document must be fully completed and signed by the Accreditation Manager/Training Officer or designee for each candidate before a candidate can begin the final skills examination. The Mobile Water Supply Operator Training Record and the practical skills evaluation sheets shall become a permanent part of the candidate's local training record, and this information shall be kept on file in accordance with local fire department accreditation procedures.

Grading Criteria

- 1. It is expected that all of the listed skill sheet elements will be taught and evaluated by the Mobile Water Supply Operator instructor throughout a course. During the final skills exam the candidate must be prepared to perform all the skills listed in this packet. There are no specific critical points designated within the practical skill sheets, and the Certifying Officer (CO) will require the candidate to repeat an individual practical skill station if *all* of the listed skill items on a selected sheet are not completed by the candidate
- 2. This packet contains skill requirements that involve the demonstration of driver skills within simulated vehicle operation scenarios related to emergency response activities. When applicable, skill sheets specifically describe when simulated conditions are permitted for certification testing.
- 3. There are critical performance items that must be followed for satisfactory performance. Examples of unsatisfactory performance can include:

- a. Exceeding limitations: safety, efficiency, and equipment limitations
- b. Inadequate/insufficient personal protective equipment (lack of seatbelt[s], etc.)
- c. Lack of skill accuracy and task completion as defined on the skill evaluation sheet
- d. Poor judgment in skill performance (i.e.- improper vehicle operation or equipment/safety violation)
- e. Failure to appropriately apply basic driver knowledge (speeding or violation of traffic laws)
- f. Not competent in the specified task or skill steps
- g. Outcome of the specified task is in doubt (i.e.- incorrectly performed or did not accomplish skill evaluation criteria)
- h. Need for evaluator intervention (i.e.- imminent health or safety risk to candidate or others)
- i. Failure to adhere to basic safety principles or guidelines

Artificialities of Training and Testing

Training and testing for at this level can only approximate the on-the-job activities of a Mobile Water Supply Operator. There are certain artificialities to training and testing that the candidate must be able to adapt to. Simulations during the final examination are often necessary to complete the required practical skill scenarios. For the best possible outcome during final skills examination the Mobile Water Supply Operator course instructor must prepare the candidates to competently perform these skills under a variety of conditions.

Final Skills Evaluation

The AFSC designated Certifying Officer shall conduct the final evaluation and will utilize the practical skills evaluation sheets during the examination process. The CO has the overall test site authority and is required to perform his or her duties as outlined in the <u>Certifying Officer Manual</u>.

For preparation of the final examination the designated CO must coordinate with the Accreditation Manager/Training Officer, or designee, to ensure an adequate test site location is available. The Accreditation Manager/Training Officer is responsible for preparation of all test site equipment/materials and arranging designated evaluators for the date of the practical examination. The CO must verify that all required elements are adequate for testing and will approve all designated evaluators. Designated evaluators shall receive training appropriate for the test site and are required to complete an Evaluator Code of Ethics Compliance agreement before testing begins.

The CO shall verify completion of the final skills examination packet, and the packet will be attached to the Mobile Water Supply Operator Training Record as part of the candidate's permanent local training record.

Prerequisite Certification Requirements

For eligibility to certify at the Mobile Water Supply Operator level, candidates must:

- *Meet all criteria for Driver Operator
- *Provide evidence of completion of Driver Operator skills while operating a fire department Mobile Water Supply apparatus, as defined in section 4.2 4.4
- Meet the medical requirement as specified in NFPA 1500 (10.1.1, 10.1.2, 10.1.3, 10.1.5)
 - *Conduct Driver Operator skills while operating a Mobile Water Supply apparatus and attach completed Driver Operator Training Record

Additional Notes:

- 1. During the final practical examination, it is expected that appropriate personal protective equipment (PPE) shall be worn for all skill stations, unless otherwise indicated within the skill evaluation sheet. When appropriate, candidates shall don PPE appropriate for the scenario to maintain on-the-job conditions.
- 2. During some scenarios a candidate may be instructed to perform other Mobile Water Supply Operator tasks not directly related to the specific skill sheet evaluation being tested. It is expected that the candidate shall perform all related skills correctly.
- 3. Some skills require that equipment be prepared or assembled within the final skills examination. Unless otherwise indicated, it is permissible for the candidate to prepare or assemble the required equipment or devices at any time, provided that this does not interfere with the core skill, task, or evolution.
- 4. Candidates must be prepared to complete skills under a variety of conditions. Training and skills practice is often done during optimum conditions, but candidates must be prepared to adapt to changing conditions that can occur in on-the-job situations.
- 5. Candidates must identify and respond quickly and appropriately to equipment malfunctions, improper application of tool usage, or other changes within a given scenario. The Certifying Officer ultimately determines if the candidate has met the criteria specified on the skill(s) being evaluated.
- 6. For final examination, the performance of a skill, task, or evolution is not required to be done in the exact order of the steps (as outlined on the skill sheet), unless it is critical to a particular task. For example, a person must secure a safety restraint device before driving an apparatus.
- 7. Some skills may require that a candidate verbalizes information about a particular task or procedure. In such cases, any question(s) from the Evaluator to the candidate must be limited to those that satisfy the criteria listed on the skill sheet, and a question cannot exceed the scope the Mobile Water Supply Operator requirements.

Mobile Water Supply Operator Final Written and Practical Examinations

Following is a brief outline of the reference materials and documents that are used for a Mobile Water Supply Operator final examination:

Mobile Water Supply Operator Examination References

- a. NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications, 2017 edition
- b. Text (any one of the following)
 - IFSTA, Pumping and Aerial Apparatus Driver/Operator Handbook, 3rd Edition
 - Jones and Bartlett Fire Apparatus Driver/Operator: Pump, Aerial, Tiller, and Mobile Water Supply, 3rd Edition
- c. Mobile Water Supply Operator Practical Skills Evaluation Sheets (this packet)

Final Examination Steps

- a. *Driver Operator Training Record review (this must be completed while operating a Mobile Water Supply Apparatus and signed off by the Accreditation Manager/Training Officer or designee prior to the date of the final examination and reviewed by the CO to ensure all elements are complete.
- b. *Mobile Water Supply Operator Training Record review (this must be completed and signed off by the Accreditation Manager/Training Officer or designee prior to the date of the final examination and reviewed by the CO to ensure all elements are complete.
- c. Certifying Officer reviews and signs candidate Application for Certification
- d. Candidate completes the written examination administered by the CO
- e. Candidate completes the practical examination administered by the CO.
- f. Certifying Officer reviews completed evaluator skill sheets and transfers information to the <u>Practical Examination Reporting Form</u> (PERF)
- g. Written exam, PERF, and signed application are forwarded to AFSC.
- h. AFSC Mobile Water Supply Operator certificate is issued upon successful completion of the written and practical exam (within approximately 30 days of test date)

*Note: The candidate's completed Training Record and signed Final Examination skill sheets shall be placed in the candidate's local training file in accordance with fire department accreditation standards.

NFPA 1002 - 2017 Ed.

PRACTICAL SKILL REQUIREMENTS

MWSO 1

Candidate:]	Date:			
STANDARD: NFPA 1002: 10.1.1	SKILL AREA:	Perform Ro	utine Tests			
TASK: Perform visual and operational checks specified in the following list, so that the operational status of the mobile water supply apparatus is verified.						
PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to: use hand tools and equipment; recognize system problems; correct any deficiency noted in accordance with policies and procedures; deploy, energize, and monitor the system or equipment and to recognize and correct system problems; and complete all related departmental forms.						
EQUIPMENT: Fire department mobile water supply apparatus, department policies and procedures (SOP/SOG), forms/reports, maintenance log book/record, notepad or clipboard, and radio unit.						
CONDITIONS: Given a fire department mobile water supply apparatus, equipment onboard the apparatus, and its manufacturer's specifications and maintenance inspection forms, the candidate shall demonstrate the ability to:						

No.	TASK STEPS	TE	ST	RETEST 1		RETEST 2	
		P	F	P	F	P	F
	Perform routine tests, inspections and/or service functions on the following	wing:					
1.	• Battery(ies)						
2.	Braking system						
3.	Coolant system						
4.	Electrical system						
5.	• Fuel						
6.	Hydraulic fluids						
7.	• Oil						
8.	• Tires						
9.	Steering system						
10.	• Belts						
11.	Tools, appliances, and equipment						
12.	Verify operational level of water tank and other extinguishing agent levels (if applicable)						
13.	Verify operation of pumping systems (if applicable)						
14.	Verify operation of rapid dump systems (if applicable)						
15.	Verify operation of foam systems (if applicable)						
16.	Deploy, energize and monitor fixed equipment not otherwise specified (i.e. generators, floodlights, air compressors, etc.)						
17.	Appropriately recognize equipment/system problems or deficiencies						
18.	Correct any found deficiencies, or document /report them in accordance with departmental procedures						
19.	Complete inspection reports and all related vehicle maintenance forms in						

NFPA 1002 - 201	7 Ed. PRACTICAL SKI	LL REQUIREMENT	Continued MWSO 1
Candidate:			Date:
Evaluator:		Retest Evaluator 1:	
Evaluator:		Retest Evaluator 2:	
Comments:			
Cer	rtifying Officer Name		Overall Skill Sheet Result:
			ass (P): Fail (F):
Certify	ving Officer Signature		

NFPA 1002 - 2017 Ed. PRACTICAL SKILL REQUIREMENTS MWSO 2									SO 2		
Cand	lidate:						Date	:			
STAN	DARD: 1	NFPA 1002:	10.2.1	SKI	LL A REA: Mai	neuver Site	and P	osition	1 Арра	aratus	S-
TASK: Maneuver and position a mobile water supply apparatus at an established water shuttle fill site, so that the apparatus is correctly positioned, supply hose are attached to the intake connections without having to stretch additional hose, and no objects are struck at the fill site.											
appara driver/	PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to determine a correct position for the apparatus, maneuver apparatus into that position, and avoid obstacles to operations. The intent of this requirement is for the driver/operator to be able to quickly and efficiently position the vehicle at a water shuttle fill site that has been established prior to the vehicle's arrival.										
	tus, hose t		olicies and procedures (ances, hard suction hose								
			department mobile was the ability to:	ter sup	ply apparatus, a fill sit	e location	on and	one or 1	more si	upply l	nose,,
No.			TASK STEPS			TEST		RETEST 1		RETI	EST 2
						P	F	P	F	P	F
1.	Appropr	iately position	the mobile water appa	ratus a	t the fill site						
2.	Correctly deploy and assemble hose lines and appliances needed to complete task										
3.	Identify water tank intake and connects hose/annliances correctly (as										
4.	Open the	e appropriate v	ralve(s) for the intake c	onnect	ions						
5.	Fills wat	er tank of appa	aratus from the site								
6.	Closes th	ne appropriate	valve(s) for the intake	connec	etions						
7.	Disconno fill opera		supply lines and prope	rly pla	ces them for the next						
8.	Avoids o	obstacles at site	e with apparatus								
9.	Perform	all operations	in a safe manner								
					Retest Evaluato	r 1:					
Evaluator: Retest Evaluator 2:											
Comments:											
						Ove	erall S	skill S	heet l	Resul	t:
		Certifying Officer	·Name		Date	Pass		_	Fail		_

Certifying Officer Signature

NFPA 1002 - 2017 Ed. PRACTICAL SKILL REQUIREMENTS MWSO 3												
Cand	Candidate: Date:											
STAN	STANDARD: NFPA 1002: 10.2.2 SKILL AREA: Maneuver and Position Apparatus- Dump Site											
	TASK: Maneuver and position a mobile water supply apparatus at an established water shuttle dump site, so that all of the water being discharged from the apparatus enters the portable tank and no objects are struck at the dump site.											
PERF appara dump s	PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to determine a correct position for the apparatus, maneuver apparatus into that position, avoid obstacles to operations, and operate the fire pump or rapid water dump system. The intent of this requirement is for the driver/operator to be able to quickly and efficiently position the vehicle at a water shuttle dump site that has been established prior to the vehicle's arrival.											
EQUI appara	PMENT:	Department potential tools and applications	olicies and procedures (sances, hose tools and a	SOP/S	OG), fire hose su	pply li						
		Given a fire deep the ability to	epartment mobile water :	suppl	y apparatus and a	n estab	olished	dumps	site loca	ation, th	ne cand	lidate
No.	TASK STEPS					TEST		RETEST 1		RETEST		
							P	F	P	F	P	F
1.	Appropr	iately position	the pumper at the dump	site								
2.	Identify	water tank disc	charge and correctly eng	gage								
3.	Operate	pump or rapid	water dump system val	ve cor	rectly							
4.	Discharg	ge all available	water in tank (or as dir	ected j	for scenario)							
5.	Closes tl	ne appropriate	valve(s) and/or shuts-do	own w	ater dump discha	rge						
6.	Restore	the apparatus t	o the road operation									
7.	Avoids	obstacles at site	with apparatus									
8.	Perform	all operations	in a safe manner									
					Retest Eval	uator	1.					
Evalu	uator:				Retest Eval							
Com	Comments:											
					Overall Skill Sheet Resu				Resul	<u>t:</u>		
		Certifying Officer	Name		Date		Pass	(P):		Fail	(F):	
	Се	rtifying Officer Sig	nature									

NFPA 1002 - 2017 Ed. PRACTICAL SKILL REQUIREMENTS MWSO 4												
Cand	Candidate: Date:											
STAN	DARD:	NFPA 1002:	10.2.3	SKI	LL AREA:	Esta	blish S	Shuttle	Dum	p Site		
	TASK: Establish a water shuttle dump site, so that the tank being drafted from is kept full at all times, the tank being dumped into is emptied first, and the water is transferred efficiently from one tank to the next.											
	PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to deploy portable water tanks, connect and operate water transfer equipment, and connect a strainer and suction hose to the fire pump.											
appara	itus, hose	tools and applia	olicies and procedures (ances, hard suction hose o unit., and water trans	with	strainer, hose too							
		Given a fire of the the ability to	lepartment pumper, mo	bile w	rater supply appar	ratus, (equipm	ent, and	d perso	nnel, tł	ne cand	lidate
No.			TASK STEPS				TE	ST	RETI	EST 1	RETEST 2	
							P	F	P	F	P	F
1.	Identify	and appropriat	e location of water shut	tle du	mp site							
2.	Prepare	and direct set u	p two portable water ta	nks								
3.	. Identify and direct set up of the hard tube and low level strainer											
4.	Identify and direct set up hose and appliances necessary for porta water tank transfer				sary for portable							
5.	Correctl	y operate the a	pparatus pump for draft	ing an	d water transfer							
6.	Establis	hes rotation of	apparatus									
7.		t water drafting tank level at al	operations while maint l times	taining	g an adequate							
8.	Perform	all operations	in a safe manner									
					Retest Eva	luator	· 1:					
Evalı	uator:				Retest Eva							
Comments:												
Certifying Officer Name						_	Overall Skill Sheet Result:				<u>t:</u>	
		Certifying Officer	rume		Бане		Pass	(P):		Fail	(F):	
	Се	ertifying Officer Sig	nature			L						

-	FIRE APPARATUS MOBILE WATER SUPPLY REQUIRED EQUIPMENT/MATERIAL						
	1	Applicable forms/reports	All				
	2	Appropriate personnel protective equipment	All				
	3	Fire hose supply line (minimum 2 ½")	2, 3, 4				
	4	Hard suction hose with strainer	2, 4				
	5	Hose tools and appliances	2, 3, 4				
	6	Low level strainers (for drafting in portable tank)	4				
	7	Maintenance log book/record	1				
	8	NFPA 1002: Standard for Fire Apparatus Driver/Operator Professional Qualifications	All				
	9	NFPA 1500:Standards on Occupational Safety and Health Program	All				
	10	Notebook/Clipboard	1				
	11	Portable water tanks (minimum of two)	3, 4				
	12	Radio unit	All				
	13	Standard Operating Procedures (SOP)/Standard Operating Guidelines (SOG)	All				
	14	Water transfer equipment (for drafting/dumping operations)	2, 3, 4				

FIRE APPARATUS MOBILE WATER SUPPLY REQUIRED FACILITY/APPARATUS CHECKLIST					
1	Relay/pump operations area (minimum 100' X 50')	3,4			
2	Fire mobile water supply apparatus:	All			
3	Maintenance area/fire station bay	1			
4	Static water source/fill site access	2, 4			