

HAZARDOUS MATERIALS OPERATIONS

PRACTICAL SKILLS CERTIFICATION EVALUATION PACKET

(NFPA Standard 472, 2013 Edition)

Department of Public Safety Alaska Fire Standards Council 5700 E. Tudor Road Anchorage, Alaska 99507 (907)269-5052

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HAZAR	HAZARDOUS MATERIALS OPERATIONS PRACTICAL SKILLS JOB PERFORMANCE REQUIREMENTS (NFPA 472, 2013 Edition)								
Skill Sheet #	~								
<u>HMO 1</u>	5.1.2.2, 5.5.2, 6.6.3.1, 6.2.1.2	Scenario- Hazardous Materials Spill	Mandatory (1 <u>or</u> 2)						
<u>HMO 2</u>	5.1.2.2(3)(e), 5.4.1(4), 6.2.4.1	Scenario- Hazardous Materials Fire	Mandatory (1 or 2)						
<u>HMO 3</u>	5.1.2.2(3)(e), 5.4.1(4), 6.2.4.1	Emergency Decontamination	Random						
<u>HMO 4</u>	6.2.4.1	Don/Doff PPE and Respiratory Protection	Random						
<u>HMO 5</u>	6.2.1.2, 6.2.4.1	Maintain PPE and SCBA	Random						
<u>HMO 6</u>	6.6.1.2, 6.6.3.1, 6.6.4.1	Defensive Control Measures	Random						
<u>HMO 7</u>	6.6.3.1; 6.6.4.1	Application of Foam	Random						

Skill Sheet Packet Instruction

Purpose of the Skill Sheets

All skills listed in this packet are consistent with the 2013 edition of the NFPA 472: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents, 2013 edition. The Alaska Fire Standards Council (AFSC) provides these skill sheets as the basis for Hazardous Materials Operations testing and certification.

For certification purposes, the final skill examination will consist of a series of mandatory skill stations and a selection of random skills from this packet. Candidates will be required to successfully complete selected practical skills during final certification examinations at the Operations level.

Description & Use

- 1. These skills sheets are designed for use by the Training Officer and Hazardous Materials Operations candidate. Use of this packet throughout an accredited training program will assist in verifying candidate competency and completion of the Hazardous Materials Training Record.
- 2. 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 Hazardous Materials Operations Training Record document.
- 3. This packet is designed to encompass the requisite skills for Hazardous Materials Operations and many of these skill sheets are used for final testing and certification. Accreditation Managers/Training Officers and Hazardous Materials Operations course instructors should utilize this evaluation packet during a course to prepare candidates for the certification exam. These skills sheets should be given to every Hazardous Materials Operations candidate at the beginning of a training course and used throughout the course for ongoing evaluation by the instructor. 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 and random skills categories. This packet contains a list of all mandatory and randomly selected skills that are used for the final examination.
- 5. Random skill stations will be selected using a test management system within the AFSC office. The random skill stations are selected just prior to the test date. 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 Hazardous Materials Operations Training Record establishes a candidate's eligibility to test. This 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 Hazardous Materials Operations 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 procedures.

Grading Criteria

- 1. It is expected that all of the listed skill sheet elements will be taught and evaluated by the Hazardous Materials Operations 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 hazardous materials skills within "simulated" scenarios related to fire ground activities. When applicable, skill sheets specifically describe when simulated fire 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: time, safety, and equipment limitations
 - b. Inadequate/insufficient personal protective equipment
 - c. Lack of skill accuracy and task completion as defined on the skill evaluation sheet
 - d. Poor judgment in skill performance (i.e.- wrong application of tool or equipment or safety violation)
 - e. Failure to appropriately apply related knowledge or skill requirements
 - 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 Hazardous Materials Operations can only approximate on-the-job activities of a firefighter. There are certain artificialities to training and testing that the candidate must be able to adapt to. Candidates must be aware that actual fire ground situations cannot be completely duplicated during final examination scenarios. For the best possible outcome during final skills examination, Hazardous Materials Operations instructors must prepare the candidates to competently perform the skills listed in this packet throughout a training course.

Final Skills Evaluation

The AFSC designated Certifying Officer (CO) conducts the final evaluation and utilizes the practical skills evaluation sheets during the final examination process. Throughout the final examination, the CO has the overall test site authority and is required to perform his or her duties as outlined in the Certification Policy Manual.

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 examination packet.

Additional Notes:

- 1. During the final practical examination it is expected that an appropriate uniform, or full personal protective equipment (PPE), shall be worn unless otherwise indicated within the skill evaluation sheet.
- 2. During some scenarios a candidate may be instructed to perform other firefighter/hazardous materials 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 may include a time limit. An Evaluator may use a digital or analog watch/stopwatch for final skills evaluation. Prior to the start of the practical examination, the CO must inspect and approve all timing devices used during final skills evaluations.
- 4. Some skills require that equipment or documentation be used within the final skills examination. Unless otherwise indicated, it is permissible for the candidate to prepare or assemble the required equipment or paperwork at any time, provided that this does not interfere with the core skill, task, or evolution.
- 5. 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 actual fire ground situations. The Evaluator 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 don turnout gear before donning an SCBA.
- 7. Some scenarios may involve skills that must be performed as a team. During final skills examinations Evaluators and candidates must be cognizant that each team member is evaluated separately to ensure individual criteria is met. An individual candidate may be required to repeat a task if they do not satisfy the skill sheet requirements if working as a member of a team.
- 8. 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 Hazardous Materials Operations requirements.

Hazardous Materials Operations Final Written and Practical Examinations

Following is a brief outline of the reference materials and documents that are used for a Hazardous Materials Operations final examination:

Hazardous Materials Operations Written Material References

- a. NFPA 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents, 2013 edition
- b. Text (any one of the following)
 - Jones and Bartlett, *Hazardous Materials Awareness and Operations*, 1st Edition
 - IFSTA, Hazardous Materials for First Responders, 4th Edition
- c. Additional Reference
 - DOT Emergency Response Guide Book, 2012 Edition

Hazardous Materials Operations Practical Skills Evaluation References

- a. NFPA 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents, 2013 edition
- b. Hazardous Materials Operations Practical Skills Evaluation Sheets (this packet)

Final Examination Steps

- a. *Hazardous Materials 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.
- b. Certifying Officer reviews and signs candidate Application for Certification
- c. Candidate completes the written examination administered by the CO
- d. Candidate completes the practical examination administered by the CO.
- e. Certifying Officer reviews completed Evaluator skill sheets and transfers information to the <u>Practical Examination Reporting Form</u> (PERF)
- f. Written exam, PERF, and signed application are forwarded to AFSC.
- g. AFSC Hazardous Materials Operations 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 shall be placed in the candidate's local training file in accordance with fire department procedures

Acknowledgements

The Alaska Fire Standards Council would like to acknowledge the assistance of the International Fire Service Accreditation Congress and its members and numerous Alaska fire service subject matter experts who have provided reference and support throughout the revision process.

	A	ALASKA HAZ MAT OPERATIONS	PRACTICAL SKILLS	EVALU	JATION	N PACI	KET		
Can	didate:				Dat	e:			
NFPA	472- 2013	3 Ed. PRACTICAL	SKILL REQUIRE	CMEN	ΓS			HM	01
STAN		IFPA 472: 5.1.2.2, 5.5.2, 6.6.3.1, 5.2.1.2	SKILL AREA: Hazard	lous Ma	aterial	s Spill/	Leak (Contr	ol
SOP/S	SOG; evalu	a scenario involving hazardous material nate progress to safely meet objectives; ormation; and communicate the status of	survey the incident to ide	entify co	ntainers				
incide proce	PERFORMANCE OUTCOME: The candidate shall implement the planned response for a hazardous materials/WMD incident to favorably change the outcomes consistent with the emergency response plan and/or standard operating procedures by completing all tasks correctly.								
	EQUIPMENT: Emergency Response Guidebook (ERG), Material safety Data Sheet (MSDS), and local SOP's/SOG's.								
CON	DITIONS:	Given an hazardous materials scenario	o, the candidate shall:	1					
No.		TASK STEPS		TE	ST	RETI	EST 1	RETI	EST 2
110.		TASK STEES		P	F	P	F	P	F
1.		and enforce scene control procedures							
2.		means of evidence preservation, as ind			Ш	Ш	Ш	┢╚	
3.		cident management system according to nent System (NIMS)	o National Incident						
4.		he type of container and the product invocehavior based on available information							
5.		e the minimum personal protective equ							
6.	-	nt product control measures as indicated							
7.	objective								
8.	and proce								
9.	•	e incident commander and other respon nergency conditions at the incident, as i							
T 1	4		Retest Evalua	tor 1:					
Evai	uator:		Retest Evalua	tor 2:					
Com	ments:								
		Certifying Officer Name	 Date	<u>C</u>	Overal	l Skill	Sheet	t Resu	ılt:
	Ce	rtifying Officer Signature		Pa	ss (P)): [Fa	il (F)	: 🗌

Candidate: Date:									
NFPA	472- 201	3 Ed. PRACTICAL	SKILL REQUIRE	MENT	ΓS			HM	02
STAN		JFPA 472: 5.1.2.2, 5.5.2, 6.6.3.1, 5.2.1.2	SKILL AREA: Hazaro	dous M	lateria	ls Fire	1		
SOP/S	SOG; evalı	scenario involving hazardous materials nate progress to safely meet objectives; sormation; and communicate the status o	survey the incident to ide	ntify co	ntainers				
incide	nt to favor	CE OUTCOME: The candidate shall is ably change the outcomes consistent with ompleting all tasks correctly.							1D
EQU	IPMENT:	Emergency Response Guidebook (ERC	G), Material safety Data S	heet (M	ISDS),	and loc	al SOP	s/SOG	's.
Con	DITIONS:	Given an hazardous materials scenario	o, the candidate shall:						
NT		Ti		TE	ST	RETI	EST 1	RETI	EST 2
No.		TASK STEPS		P	F	P	F	P	F
1.	Establish	and enforce scene control procedures							
2.		means of evidence preservation, as indi							
3.		cident management system according to nent System (NIMS)	o National Incident						
4.		he type of container and the product invochavior based on available information							
5.		e the minimum personal protective equi							
6.		nt product control measures as indicated							
7.	Evaluate objective	the status of the actions taken in accomps	plishing the response						
8.	Communand proce	icate the status of the response in accordedure	dance with local policy						
9.		e incident commander and other respon- nergency conditions at the incident, as i							
			Retest Evaluat	or 1:					
Eval	uator:		Retest Evaluat	or 2:					
Com	ments:								
					1	1 (1 '11	GI	.	14
		Certifying Officer Name	Date	-	<u>veral</u>	<u>l Skill</u>	Sneet	<u> Kest</u>	<u> </u>
	Ce	rtifying Officer Signature		Pa	ss (P)):	Fa	il (F)	: 🗌

Can	didate:				Date	: -			
NFPA	472- 201	3 Ed. PRACTICAL	SKILL REQUIREN	1ENT	S			<u>HM</u>	03
STA		IFPA 472: 5.1.2.2(3)(e), 5.4.1(4), 5.2.4.1	SKILL AREA: Emergo	ency D	econta	minat	ion		
TAS	K: Demon	strate the ability to perform emergency	decontamination on a cont	aminate	ed perso	on.			
conta	minated are	CE OUTCOME: The candidate shall be ea, wash the contaminated person as necel person to a facility of higher care.							orting
suppl	EQUIPMENT: Personal protective equipment, self-contained breathing apparatus (SCBA)/respiratory protection, water supply, hoses, hose tools and appliances, various nozzles: hand line, fog/solid stream combination, brushes, containment area, product name and Emergency Response Guidebook (ERG), portable radio, and local SOP's/SOG's.								
Con	DITIONS	Given a simulated contaminated person	n and a scenario, the cand	idate sh	all dem	onstrat	e the at	oility to):
N.		The are Spring		TE	ST	RET	EST 1	RET	EST 2
No.		TASK STEPS		P	F	P	F	P	F
1.	Identify the	ne contaminated person							
2.	Remove o	contaminated person from hot zone/conta	aminated area						
3.	Flood cor	ntaminated person with water							
4.	Remove o	contaminated person's helmet (if worn)							
5.		contaminated person's respiratory protec							
6.	washing: a) 1 b) 1	contaminated person's clothing while material emove gloves and coat remove pants and boots remove hood	aintaining continuous						
	d) 1	emove SCBA mask							
7.		taminated person to clean environment							
8.	Communi	cate contaminant information to ambula	ance and/or hospital						
Eva	luator:		Retest Evaluato Retest Evaluato						
Con	nments:			<u> </u>					
		Certifying Officer Name	 Date	<u>O</u>	<u>verall</u>	Skill			
		rtifying Officer Signature		Pas	s (P):	: 🔲	Fai	il (F)	$: \square$

Cano	didate:					Date	:			
NFPA	472- 201	3 Ed. I	PRACTICAL SK	ALL REQUIREM	1ENT	S			HM	04
STAN	NDARD: 1	NFPA 472: 6.2.4.1	SKILL AREA	: Don/Doff PPE ar	nd Res	pirato	ry Pro	tectio	n	
		strate the ability to don ea (simulated), and doff				• 1		, work	in a	
	PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to correctly don PPE and respiratory protection, work in a contaminated area, exit the contaminated area, and doff gear in accordance with AHJ procedure.									
	EQUIPMENT: Personal protective equipment, SCBA, and decontamination materials according to Authority Having Jurisdiction (AHJ), and local SOP's/SOG's									
	DITIONS: ete all task	Given a simulated has steps.	zardous materials en	vironment, the candida	ite shall	demon	strate t	he abili	ity to	
No.		T	ASK STEPS		TE	l		EST 1		EST 2
	P F P F									
1. 2.	·	at personal protective e		`					H	
3.		don respiratory protec)			H		H	
4.		l personal protective cl		place	H		H	H	H	
5.		ntaminated area and per		1						
6.	Exit cont	aminated area								
7.		e decontamination and I policy and procedure	doffing procedures in	accordance with						
8.	Remove for reuse	respiratory protection a	nd place all equipme	ent in a ready state						
Fyal	uator:			Retest Evaluato	r 1:					
Livai	uator.			Retest Evaluato	r 2:					
Com	Comments:									
		Certifying Officer Name		Date	<u>O</u>	<u>verall</u>	<u>Skill</u>	<u>Sheet</u>	Resu	ılt:
	Се	rtifying Officer Signature			Pas	s (P):		Fai	l (F)	: 🔲

		ALASKA HAZ MAT OPERATIONS	T RACTICAL DRI	ILLS E V	ALUA	IIION	IACK	.1.7.1		
Candi	date:					Date	:			
NFPA 4	72- 2013	B Ed. PRACTICAL	L SKILL REQU	IREM	ENTS	S			<u>HM</u>	05
STANI	OARD: 1	NFPA 472: 6.2.1.2, 6.2.4.1	GENERAL SKILL:			nce: F n Equ				
equipm	ent so tha	et the maintenance, testing, inspection, at equipment is clean and maintained a equipment is placed in a ready state or	ccording to manufac							nce
		CE OUTCOME: The candidate shall ollow manufacturer and departmental								ning
EQUIPMENT: SCBA/respirator ensemble, service tags, cleaning supplies, and maintenance log book/record, and local SOP's/SOG's.										
COND	ITIONS:	Given a fire station or other adequate	location, the candid	late shall	demor	nstrate 1	the abil	ity to:		
No.		TASK STEPS			TE	ST	RET	EST 1	RET	EST 2
110.		TASK STEFS			P	F	P	F	P	F
1.		CBA/respirator with manufacturer rec/disinfectant and rinse completely with								
2.		quipment with damp cloth or according		cies						
3.		straps and backpack assembly (SCBA)			<u> </u>		H	H		
4.		condition and hydrostatic test date of column rules of column rules on fully and compare that		hin						
5.	100 psi	(low pressure) to 200 psi (high pressure)	re) of each other (SC	CBA)					Ш	
6.	(SCBA)	regulator operation by connecting to fa	ce piece and breathin	ng						
7.		ace piece and exhalation valve by inha								
8.		by-pass operation and ensure by-pass is (SCBA)	s in the off position a	after						
9.		ow pressure alarm while bleeding the								
10.		all straps, valves, and components back				Ц	Ц	Ц	Ц	Ш
11.		he air cylinder is in off position and at	,				Н	Н		
12. 13.		e from service and notify supervisor if the reports and documentation pertaining		ina	\exists		H	H		
13.	Compic	the reports and documentation pertaining	ig to equipment use		<u> </u>	Ш	Ш			
Evaluator: Retest Evaluator 1:										
			Retest Ev	aluator	2:					
Comn	nents:									
		Certifying Officer Name	 Date		<u>Ov</u>	verall	Skill	Sheet	Resu	ılt:
		rtifying Officer Signature			Pass	s (P):		Fai	l (F)	: 🔲

FPA 472- 2013 Ed. PRACTICAL SKILL REQUIREMENTS STANDARD: NFPA 472: 6.6.1.2, 6.6.3.1, 6.6.4.1 SKILL AREA: Product Control Me TASK: Given examples of hazardous materials/WMD incidents, the operations level responder product control shall identify the options for each response objective and shall meet the requirem AHJ: PERFORMANCE OUTCOME: The candidate will successfully demonstrate each of the ability thecklist.	HMO 6a
TASK: Given examples of hazardous materials/WMD incidents, the operations level responder product control shall identify the options for each response objective and shall meet the requirem AHJ: PERFORMANCE OUTCOME: The candidate will successfully demonstrate each of the ability checklist.	
product control shall identify the options for each response objective and shall meet the requirem AHJ: PERFORMANCE OUTCOME: The candidate will successfully demonstrate each of the ability checklist.	sures
hecklist.	
	es identified within the
EQUIPMENT: Personal protective equipment, self-contained breathing apparatus (SCBA), sho hat can be used for absorption, damming, diking, diversion, retention, dispersion and suppression andbags, fire hose, various nozzles: hand line, fog/solid stream combination, hose tools an upply. Other equipment/materials may be used based on local resources, portable radio, and local resources.	, tarps/salvage cover,
CONDITIONS: The candidate shall complete the following:	

N.T	The art Carring	TEST		RET	EST 1	RETEST 2	
No.	TASK STEPS	P	F	P	F	P	F
	Certifying Officer shall select two (2) of the following tasks for final certification examination:						
1.	Absorption (e.g.: absorbent pads, saw dust, diatomaceous earth, gelling agent)						
	a. Use common, available materials.						
	b. Avoid contact with the hazardous material.						
	c. Ensure drains do not become contaminated.						
	d. Ensure hazardous material is absorbed into absorbent material.						
2.	☐ Damming (e.g.: sand, dirt, salvage cover, absorbent pads, sewer-storm drain plugs)						
	a. Use common, available materials.						
	b. Avoid contact with the hazardous material.						
	c. Ensure dam is not breached.						
3.	Diking (e.g.: dirt, sand bags, absorbent pads, clay)						
	a. Use common, available materials.						
	b. Avoid contact with the hazardous material.						
	c. Form a "v" and a "circle" dike.						
	d. Ensure hazardous material does not enter drains or manholes.						
4.	Dilution (e.g.: applied water stream to dilute substance)						
	a. Use common, available materials.						
	b. Avoid contact with the hazardous material.						
	c. Ensure the hazardous material is water soluble.						
	d. Do NOT overflow retention pond of hazardous material.						
5.	☐ Diversion (e.g.: shovels or high pressure water steams, sand bags)						
	a. Use common, available materials.						
	b. Avoid contact with the hazardous material.						
	c. Ensure hazardous material is diverted away from drains and waterways.						
	d. Make sure the hazardous material does NOT breach the diversion						

Can	didate:				Date):			
NFPA	472- 200	98 Ed. PRACTICAL SK	KILL REQUIREM	1ENT	S		1	нмо	6b
No.		TASK STEPS		TE	ST	RETI	EST 1	RETI	EST 2
100.		I ASK STEPS		P	F	P	F	P	F
6.	Rete	ntion (e.g.: salvage cover catch-all basin, ea confinement boom, temporary patche							
	a. Def	ine the purpose of retention.							
		e common, available materials.							
	c. Avo								
	d. Ensure product flow does not exceed retention area.								
7.		r Dispersion (e.g.: water streams, fans)							
	a. Avo	oid contact with the hazardous material.							
	b. Elir	minate ignition sources, if applicable.							
	c. Use	water spray or fans to control dispersion.							
	d. Mo	ve vapors away from threatened area.							
8.	Remo	ote valve shut-off							
	a. Avo	oid contact with the hazardous material.							
	b. Elir	minate ignition sources, if applicable.							
	c. Mai	nipulate valve as instructed to control the flo	ow of the product.						
Fyel	luator:		Retest Evaluato	r 1:					
_ wa.	awr:		Retest Evaluato	r 2:					
Con	nments:								
<u> </u>									
		Certifying Officer Name	- Date	<u>O</u>	verall	Skill	Sheet	Resu	ı <u>lt:</u>
				Dog	s (P):	, 🖂	Fo:	il (F)	. \square
	Ce	ertifying Officer Signature	-	1 as	s (I).	· 🆳		ц (Г)	·Ш

Candi	date:						Date	:			
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STANI	DARD: 1	NEDA 172: 6631: 6611	GENI SKIL	ERAL L:	App	licatio	on of l	Foam			
jurisdic	tion, dem	class B foam or simulated vapor suppressionstrate the proper application of the firelous materials.									
PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to properly apply firefighting foam or a vapor suppressing agent. The agent application should be sufficient to prevent re-ignition, and provide safety to the team at all times.											
EQUIPMENT: Personal protective equipment, SCBA (CO to determine if on air), pump apparatus, attack line, various nozzles: hand line, fog/solid stream combination, foam proportioner/eductor, foam compatible nozzle, foam concentrate (<i>or simulated foam product</i>), hose tools and appliances, and water supply, portable radio, and local SOP's/SOG's								ous			
COND	ITIONS:	Given a hazardous materials scenario, t	the c	andidate shall den	nonst	rate th	e abilit	y to:			
No.		TASK STEPS				TE	ST	RETI	EST 1	RET	EST 2
						P	F	P	F	P	F
1.		ach the spill or fire from uphill and upwir nate the attack team's advancement towa		on fire so that a		Ш		Ш		Ш	
2.		and safe approach is maintained	aru ii	le fife so that a							
3.		zle to correct pattern (and GPM flow, if									
4.		rrect application procedures to effectively	<u> </u>		;						
5.		astrate application of a foam blanket or lowing techniques:	over a	i fuel spill using							
	1	Roll on method									
		Bank down method									
		Rain down method									
6.		properly proportioned foam to the surfaction intain a foam blanket	ce of	the fuel and create							
7.		aish the fire and prevent re-ignition									
8.	Mainta	in team protection with a foam stream									
9.	Face th	e hazard until the team has completely re	etrea	ted to a safe haver	1						
173	. 4			Retest Evalue	ator	1:					
Evaluator: Retest Evaluator 2:											
Comments:											
					Γ	Ω-	orall	C1-:11	Chast	Dage	14.
		Certifying Officer Name		Date		<u> </u>	erall	<u>SKIII</u>	<u>Sheet</u>	Kesu	<u> 11:</u>
		rtifving Officer Signature				Pass	s (P):		Fai	l (F)	$: \square$

	PRACTICAL SKILLS TESTING CORRELATION MAP									
HAZAR	HAZARDOUS MATERIALS OPERATIONS PRACTICAL SKILLS JOB PERFORMANCE REQUIREMENTS									
	(NFPA 472, 2013 Edition)									
Skill Sheet #	~ J									
<u>HMO 1</u>	5.1.2.2, 5.5.2, 6.6.3.1, 6.2.1.2	Scenario- Hazardous Materials Spill	Mandatory (1 or 2)							
<u>HMO 2</u>	5.1.2.2(3)(e), 5.4.1(4), 6.2.4.1	Scenario- Hazardous Materials Fire	Mandatory (1 or 2)							
<u>HMO 3</u>	5.1.2.2(3)(e), 5.4.1(4), 6.2.4.1	Emergency Decontamination	Random							
<u>HMO 4</u>	6.2.4.1	Don/Doff PPE and Respiratory Protection	Random							
<u>HMO 5</u>	6.2.1.2, 6.2.4.1	Maintain PPE and SCBA	Random							
<u>HMO 6</u>	6.6.1.2, 6.6.3.1, 6.6.4.1	Defensive Control Measures	Random							
<u>HMO 7</u>	6.6.3.1; 6.6.4.1	Application of Foam	Random							

NFPA 472 2013 Edition Changes to Haz Mat Ops Skill Sheets

Specific Skill Sheet Changes from 2008 to 2013 Editions:

- Reformatted sheet numbering for consistency with AFSC format
- Hyperlinked <u>Specific Job Performance Requirement</u> with individual skill sheets. Individuals sheet number hyperlinked to jpr chart.
- Removed multiple skill sheets from practical finals as indicated for correlation requirements under accreditation guidelines.
- Added a separate equipment and facility requirement list for use in course planning process.

		HMO Testing Equipment List	Related Skill
			Sheet(s)
	1	Cleaning supplies (PPE, hose, ladders, SCBA)	4, 5,
	2	Containment area/tarp/portable children's swimming pool	3,
	3	Current Emergency Response Guide Book (1 per student)	1, 2, 3,
	4	Decon Brushes	3, 4,
	5	Department Standard Operating Procedures/Standard Operating Guidelines (SOP's/SOG's). Accessible to membership	1-7,
	6	Extra bunker gear/PPE (Decon)	4,
	7	Fire hose (attack 1 ½ or larger); 400' with 2 nozzles	3, 6, 7,
	8	Fire hose (supply 2 ½ or larger); 400'	3, 6,
	9	Foam Agent (5-gallons Class B [can be simulated or expired foam])	7,
	10	Foam Appliances	7,
	11	Foam Proportioner (apparatus mounted or in line eductor)	7,
	12	Full PPE/bunkers for each candidate	3, 4, 6, 7,
	13	Full Self Contained Breathing Apparatus (SCBA)/supplied air respirator (SAR)	3, 4, 5, 6, 7,
		protection for participants	
	14	Hose tools and appliances	3,6,7
	15	MSDS File	1, 2,
	16	Portable radio	3, 6, 7
	17	Salvage tarps/covers (assortment)	6,
	18	Service Tags and Maintenance log book/record	5,
	19	Traffic/scene control devices	
	20	Materials that can be used for absorption, damming, diking, diversion, retention, dispersion and suppression.	6,
	21	Various hand tools (Including forcible entry tools)	6,
	22	Shovels	6,
	23	Sandbags	6,
H	24	· ·	
	24	Various nozzles: hand line, fog/solid stream, combination	3, 6, 7

HMO Facility Checklist		Related Skill Sheet(s)	
	1	Active hydrant for water supply/other water source	3, 6, 7,
	2	Pump apparatus with water tank/source	3, 6, 7,