# "First Responder to the Hazardous Materials Incident"

### Competency Assessment



#### North Central Florida Regional Hazardous Materials Response Team 2005 Edition

Prepared By: Gainesville Fire Rescue Special Operations 1025 NE 13<sup>th</sup> Street Gainesville, Florida 32601

#### Introduction

This document has been developed to provide for regularly scheduled competency maintenance of the minimum knowledge, skills and abilities required for first response personnel providing emergency response to the hazardous materials incident. In addition, this document will outline the minimum competencies required to function as a hazardous materials first responder, as recognized within the North Central Florida Local Emergency Planning Council (LEPC) Region III Regional Hazardous Materials Response Team.

The psychomotor skills found in NFPA 472 have been brought together to comprise this document.

This document is recommended for the initial training of the "First Responder" to hazardous materials incidents as well as for the documentation of periodic competency assessment(s). In accordance with OSHA 29 CFR 1910.120 (q), annual refresher training shall take place in sufficient content and duration for employees to maintain their competency, or demonstrate their competency at least yearly. In addition, the employer is responsible for designating appropriate recertification procedures and identifying those "qualified" to sign this document indicating successful completion of a competency.

Prepared For:

The North Central Florida Regional Hazardous Materials Response Team 2009 Northwest 67<sup>th</sup> Place, Suite A Gainesville, Florida 32653-1605

Prepared By:
Gainesville Fire Rescue
Special Operations
1025 NE 13<sup>th</sup> Street
Gainesville, Florida 32601

Copyright © 2005 North Central Florida Regional Hazardous Materials Response Team

			ea 4.2.1 Irdous Materials Incident	
No.	Requ	irement		
	preser		uations or both, with or without hazardous ress level shall identify those situations who the following requirements:	
	1)	Identify the definition of hazardous	s materials (or dangerous goods, in Canad	a)
			(Signature)	// (Date)
	2)	Identify the UN/DOT hazard class common examples of materials in	es and divisions of hazardous materials a each hazard class or division.	nd identify
			(Signature)	// (Date)
	3)	Identify the primary hazards asso divisions of hazardous materials b	ciated with each of the UN/DOT hazard cla by hazard class or division.	asses and
			(Signature)	/ <u>/</u> (Date)
		Examir	ners Remarks	

Responder	Date/									
and skill necessary to; analy survey the incident from a sa	s for the First Responder shall be to provide the knowledge tree the incident for the presence of hazardous materials, afe location to identify the product(s) involved, collect and implement protective actions, appropriate notifications and es .									
Analyzing f	Area 4.2.1 the Hazardous Materials Incident									
No. Requirement										
	Examiners Remarks									

R	espor	nderDate/					
ar su in	The goal of the competencies for the First Responder shall be to provide the knowledge and skill necessary to; analyze the incident for the presence of hazardous materials, survey the incident from a safe location to identify the product(s) involved, collect information from the ERG and implement protective actions, appropriate notifications and request specialized resources.						
		Area 4.2.1 Analyzing the Hazardous Materials Incident					
No.	Requ	irement					
	4)	Identify the difference between hazardous materials incidents and other emergencies.					
		(Signature) (Date)					
	5)	Identify typical occupancies and locations in the community where hazardous materials are manufactured, transported, stored, used, or disposed of.					
		(Signature) / / (Date)					
	6)	Identify typical container shapes that can indicate the presence of hazardous materials.					
		(Signature) (Date)					
	······································	Examiners Remarks					

Responder	Date/
and skill necessary to; analyze th survey the incident from a safe lo	the First Responder shall be to provide the knowledge e incident for the presence of hazardous materials, ecation to identify the product(s) involved, collect plement protective actions, appropriate notifications and
Analyzing the	Area 4.2.1
No. Requirement	Hazardous Materials Incident
	· · · · · · · · · · · · · · · · · · ·
	xaminers Remarks

	,	Area 4.2. Analyzing the Hazardous	•	
lo.	Require	ment		
		entify facility and transportation markings a e the following:	nd colors that indicate hazardo	us materials,
	a)	Transportation markings, including UN/NA mark, elevated temperature (HOT) mark,		
			(Signature)	// (Date)
	b)	NFPA 704, Standard System for the Identification Emergency Response, markings.	ification of the Hazards of Mate	erials for
			(Signature)	// (Date)
	c)	Military hazardous materials markings.		
			(Signature)	// (Date)
		Examiners Rei	marke	

Responder		Date								
and skill necessary to survey the incident fi	o; analyze the incident for the p rom a safe location to identify th ERG and implement protective	er shall be to provide the knowledge resence of hazardous materials, he product(s) involved, collect actions, appropriate notifications and								
Area 4.2.1 Analyzing the Hazardous Materials Incident										
No. Requirement	No. Requirement									
	Examiners Rem	arks								

		ea 4.2.1 rdous Materials Incident	
о.	Requirement		A A A A A A A A A A A A A A A A A A A
	<ol> <li>Identify facility and transportation n include the following:</li> </ol>	narkings and colors that indicate hazardo	us materials,
	d) Special hazard communication	n markings for each hazard class.	
		(Signature)	// (Date)
	e) Pipeline markings		
		(Signature)	// (Date)
	f) Container markings	•	
		(Signature)	// (Date)
		,	, ,
		ers Remarks	

Responder	Date/									
and skill necessary to; analyze the survey the incident from a safe loc	he First Responder shall be to provide the knowledge incident for the presence of hazardous materials, ation to identify the product(s) involved, collect lement protective actions, appropriate notifications and									
Analyzing the I	Area 4.2.1 Hazardous Materials Incident									
No. Requirement	No. Requirement									
	1									
Ex	kaminers Remarks									

		Ana	alyzing tl		a 4.2.1 dous Ma	iterials Inci	ident	
о.	Requ	iremer	nt					
	8)	Given a		marking, descr	ibe the signific	ance of the colors		
						(Signature)		// (Date)
	9)	Identify	y US and Cana	ndian placards	and labels tha	t indicate hazardo	us materials	S.
	·							
						(Signature)	!	// (Date)
	10)		y the following s that indicate h			I safety data sheet	:s (MSDS) a	and shipping
		a)	Identify where	e to find MSDS	3			, ,
						(Signature)	)	// (Date)
		b)	Identify entrie	es on an MSDS	S that indicate	the presence of ha	azardous m	naterials.
						(Signature)	)	(Date)
				ri.	ara Damas	-140		
				Examin	ers Remai	KS		

Responder	Date							
and skill necessary to; an survey the incident from a	ncies for the First Responder shall be to provide the knowledge halyze the incident for the presence of hazardous materials, a safe location to identify the product(s) involved, collect and implement protective actions, appropriate notifications and urces.							
	Area 4.2.1							
Analyzing the Hazardous Materials Incident								
No. Requirement								
	Examiners Remarks							

	A	۱na	Area 4.2.1 alyzing the Hazardous M	aterials Incident	
lo.	Require	men	t		
			ry the following basic information on mater structure that indicate hazardous materials:	rial safety data sheets (MSI	OS) and shipping
		c)	Identify the entries on shipping papers the materials.		
			-	(Signature)	// (Date)
		d)	Match the name of the shipping papers f and water) with the mode of transportation		highway, rail,
			-	(Signature)	/ <u>/</u> (Date)
		e)	Identify the person responsible for having transportation.	g the shipping papers in ea	ch mode of
			-	(Signature)	/_/ (Date)
		f)	Identify where the shipping papers are fo	ound in each mode of trans	portation.
				(Signature)	/_/ (Date)
			Examiners Rema	rks	

Res	sponder					Date	/	
and sur info	skill necessar vey the inciden	y to; analyz it from a sa he ERG and	ze the incid fe location d impleme	First Responder shall be to provide the knacident for the presence of hazardous mate ion to identify the product(s) involved, colliment protective actions, appropriate notific			rials, ect	
	Anal	vzing t	_	Area 4 zardo		erials In	ciden	t
No. Requirement								
			Exam	iners F	Remarks			
İ								

		Area 4.2. Analyzing the Hazardous		
No.	Requi	irement		
	10)	Identify the following basic information on m papers that indicate hazardous materials:	aterial safety data sheets (MSC	9S) and shipping
		<li>g) Identify where the shipping papers ca transportation.</li>		
		•	(Signature)	// (Date)
	11)	Identify examples of clues (other than occup placards/labels, MSDS, and shipping paper to indicate hazardous materials.	eancy/location, container shapes) that use the senses of sight,  (Signature)	sound, and odor
			(Signature)	(Date)
	12)	Describe the limitations of using the senses hazardous materials.	in determining the presence or	, ,
	13)	Identify at least four types of locations that of activity using hazardous materials.	(Signature) could become targets for crimin	
				/_/ (Date)
			(Signature)	(Date)
		Examiners Re	marks	

Responder	Date/						
The goal of the competencies for the First Responder shall be to provide the knowledge and skill necessary to; analyze the incident for the presence of hazardous materials, survey the incident from a safe location to identify the product(s) involved, collect information from the ERG and implement protective actions, appropriate notifications and request specialized resources.							
Analyzing th	Area 4.2.1 ne Hazardous Materials Incident						
No. Requirement							
~ 							
	Examiners Remarks						

F	Respon	der Date//			
The goal of the competencies for the First Responder shall be to provide the knowledge and skill necessary to; analyze the incident for the presence of hazardous materials, survey the incident from a safe location to identify the product(s) involved, collect information from the ERG and implement protective actions, appropriate notifications and request specialized resources.					
		Area 4.2.1 Analyzing the Hazardous Materials Incident			
No.	Requi	rement			
	14)	Describe the difference between a chemical and biological incident.			
		(Signature) (Date)			
	15)	agents.			
		(Signature) (Date)			
	16)	Identify at least four indicators of possible criminal or terrorist activity involving biological agents.			
		(Signature) (Date)			
		Examiners Remarks			

Responder	/Date//						
The goal of the competencies for the First Responder shall be to provide the knowledge and skill necessary to; analyze the incident for the presence of hazardous materials, survey the incident from a safe location to identify the product(s) involved, collect information from the ERG and implement protective actions, appropriate notifications a request specialized resources.							
·	Area 4.2.1 zardous Materials Incident						
No. Requirement							
Exar	niners Remarks						

	Area 4.2.2 Surveying the Hazardous M	aterials Incident	
No.	Requirement		
r	Given examples of facility and transportation situations i esponder at the awareness level shall identify the haza JN/NA identification number, or type placard applied, ar equirements:	rdous material(s) in each sit	uation by name,
	<ol> <li>Identify difficulties encountered in determining the s both facilities and transportation.</li> </ol>	specific names of hazardous	materials in
	· -	(Signature)	// (Date)
	<ol> <li>Identify sources for obtaining the names of, UN/NA placard associated with hazardous materials in tran</li> </ol>		or types of
		(Signature)	// (Date)
	3) Identify sources for obtaining the names of hazardo	ous materials in a facility.	
		(Signature)	/_/ (Date)
		 ırks	

F	Responder	Date/			
The goal of the competencies for the First Responder shall be to provide the knowledg and skill necessary to; analyze the incident for the presence of hazardous materials, survey the incident from a safe location to identify the product(s) involved, collect information from the ERG and implement protective actions, appropriate notifications request specialized resources.					
	Area 4.2.3 Surveying the Hazardous Mate	erials Incident			
No.	Requirement				
	Examiners Remarks				
I					

	Area 4.2.3 Collecting Hazard Info	rmation	
No.	Requirement		
	Given the identity of various hazardous materials (name, U placard), the first responder at the awareness level shall identify hazard information for each material by using the current e <i>Guidebook</i> and also shall meet the following requirements:	entify the fire, explosion, ar dition of the <i>Emergency Re</i>	nd health
	1) Identify three methods for determining the guide page	for a hazardous material.	1 1
		(Signature)	(Date)
	2) Identify the two general types of hazards found on each	ch guide page.	
	_	(Signature)	(Date)
	Examiners Remark		
	Examiners Remark	(S	

T a s ir	nd skill necessary to; and urvev the incident from a	cies for the First Responder shall be to alyze the incident for the presence of he safe location to identify the product(s) and implement protective actions, app	azardous materials, ⊢involved, collect
		Area 4.3 Planning the Response	
No.	Requirement		
		(Reserved)	
		Examiners Remarks	

	Responder	Date	<u> </u>	
	and skill nece survey the in information f	ne competencies for the First Responder shall be to provide to essary to; analyze the incident for the presence of hazardous cident from a safe location to identify the product(s) involved from the ERG and implement protective actions, appropriate n ialized resources.	materials, I, collect	
		Area 4.4.1 Implementing the Planned Response	<b>)</b>	
lo.	. Requirem	ent		
	response pla Emergency the actions t	ples of facility and transportation hazardous materials incidents, than, the organization's standard operating procedures, and the curresponse Guidebook, first responders at the awareness level shap be taken to protect themselves and others and to control access set the following requirements:	rent edition of the all be able to identify	
		the location of both the local emergency response plan and the o		
	·	(Signature)	(Date)	
	2) Identify Inciden	the role of the first responder at the awareness level during a haz	zardous materials	
		(Signature)	(Date)	
		Examiners Remarks		

7	The goal of the competencies for the First Responder shall be to provide the knowledge and skill necessary to; analyze the incident for the presence of hazardous materials,				
s i	urve nfor	ey the in	cessary to; analyze the incident for the presence of hazardous materials, incident from a safe location to identify the product(s) involved, collect from the ERG and implement protective actions, appropriate notifications and ecialized resources.	d	
			Area 4.4.1 Implementing the Planned Response		
No.	Re	equirem	ment		
	3)		fy the following basic precautions to be taken to protect themselves and others in a dous materials incident:		
		a) ~	ldentify the precautions necessary when providing emergency medical care to vio hazardous materials incidents.		
			(Signature) (Da	ite)	
		b)			
			(Signature) (Da	/ ite)	
		c)	property at hazardous materials incidents.		
			(Signature) (Da	/ nte)	
		d)	) Identify the general routes of entry for human exposure to hazardous materials for hazard class.	or each	
			(Signature) (Da	ate)	
			Examiners Remarks		

			Area 4.4.1 Implementing the Planne	d Response	
lo.	Re	quiren	ent		
	4)		the identity of various hazardous materials (na ard), identify the following response information		number, or type
		a)	Emergency action (fire, spill or leak and first	aid)	, ,
			- 	(Signature)	/_/ (Date)
		b)	Personal protective equipment necessary.		
			***		
				(Signature)	(Date)
		c)	Initial isolation and protective action distance	es.	
			_	(Signature)	<u>/_/</u> (Date)
			Examiners Remar		

	Responder		Date	_/					
; ;	The goal of the competencies for the First Responder shall be to provide the knowledge and skill necessary to; analyze the incident for the presence of hazardous materials, survey the incident from a safe location to identify the product(s) involved, collect information from the ERG and implement protective actions, appropriate notifications and request specialized resources.								
		Area 4.4.1	-						
	Implementing the Planned Response								
No.	Requiren	nent							
5) Given the name of a hazardous material, identify the recommended personal protective equipment from the following list:									
	a)	Street clothing and work uniforms			1 1				
			(Signature)		// (Date)				
	b)	Structural fire-fighting protective clothing							
			(Signature)		// (Date)				
	c)	Positive pressure self-contained breathing	apparatus						
			(Signature)		//_ (Date)				
	d)	Chemical-protective clothing and equipme	nt						
			(Signature)		// (Date)				

**Examiners Remarks** 

Responder					Date/		
	The goal of the competencies for the First Responder shall be to provide the knowledge and skill necessary to; analyze the incident for the presence of hazardous materials, survey the incident from a safe location to identify the product(s) involved, collect information from the ERG and implement protective actions, appropriate notifications and request specialized resources.						
	Area 4.4.1 Implementing the Planned Response						
No.	lo. Requirement						
	6)			ponders at the awareness level shall identify re actions:	the definitions for each of t	:he following	
			a)	Isolation of the hazard and denial of entry		1 1	
				<u>-</u>	(Signature)	(Date)	
			b)	Evacuation			
				-	(Signature)	// (Date)	
			c)	Sheltering in-place protection	(eignature)	(23.0)	
			٠,	Shellering in place protection		1 1	
				-	(Signature)	(Date)	
	Examiners Remarks						

Responder			Date			
The goal of the competencies for the First Responder shall be to provide the knowledge and skill necessary to; analyze the incident for the presence of hazardous materials, survey the incident from a safe location to identify the product(s) involved, collect information from the ERG and implement protective actions, appropriate notifications and request specialized resources.					1	
		Area 4.4.1 Implementing the Planne	ed Respon	se		
No.	R	equirement				
	7)	First responders at the awareness level shall identify and protective action zones	the shapes of rec			
	8)	First responders at the awareness level shall describ spills as found in the table of initial isolation and prote Response Guidebook	e the difference bective action dista	nces in	the <i>Emerger</i>	rge ncy _/ te)
	9)	First responders at the awareness level shall identify distances are used at a hazardous materials incident	the circumstance			llowing
		a) Table of initial isolation and protective action	ı distances			
		b) Isolation distances in the numbered guides	(Signature	<u>;)</u>	/_ (Dat	_/ te)
		_	(Signature	;)	/_ (Dat	_/ te)
		Examiners Rema	rks			

Th and su inf	d skill nece rvey the ind formation fr	ne competencies for the First Responde essary to; analyze the incident for the p cident from a safe location to identify th	Date/			
Area 4.4.1 Implementing the Planned Response						
No.	Requireme	ent				
	10)	First responders at the awareness level sisolation distances in the orange-bordered distances in the green-bordered pages in	ed guide pages and the protecti			
			(Signature)	(Date)		
	11)	First responders at the awareness level s hazard area and deny entry to unauthoriz	shall identify the techniques used and persons at hazardous mate	ed to isolate the rials incidents.		
			(Signature)	// (Date)		
	12)	Identify at least four specific actions necessinvolve criminal or terrorist activity	essary when an incident is susp			
			(Signature)	/_/ (Date)		
Examiners Remarks						
				`		

T a s ii	The goal of the competencies for the First Responder shall be to provide the knowledge and skill necessary to; analyze the incident for the presence of hazardous materials, survey the incident from a safe location to identify the product(s) involved, collect information from the ERG and implement protective actions, appropriate notifications and request specialized resources.					
	Area 4.4.2 Initiating the Notification Process					
No.	Requirement					
	Given either a facility or transportation scenario involving hazardous materials, regardless of the presence of criminal or terrorist activities, the first responder at the awareness level shall identify the initial notifications to be made and how to make them, consistent with the local emergency response plan or the organization's standard operating procedures.					
Examiners Remarks						

Responder		Date		AMERINAN 3 STREAM PROPERTY.		
The goal of the competencies for the First Responder shall be to provide the knowledge and skill necessary to; analyze the incident for the presence of hazardous materials, survey the incident from a safe location to identify the product(s) involved, collect information from the ERG and implement protective actions, appropriate notifications and request specialized resources.						
Area 4.5 Evaluating Progress						
No. Requirement		9.000				
		•				
		**				
	(Reserved)					
Examiners Remarks						

Responder	/ Date//					
The goal of the competencies for the First Responder shall be to provide the knowledge and skill necessary to; analyze the incident for the presence of hazardous materials, survey the incident from a safe location to identify the product(s) involved, collect information from the ERG and implement protective actions, appropriate notifications and request specialized resources.						
Area 4.6						
ı emmanış	Terminating the Incident					
No. Requirement						
•	erved)					
Examiners Remarks						