

Training and Evaluation Outline Report

Status: Approved

28 May 2020

Effective Date: 28 May 2020

Task Number: 05-DET-5405

Task Title: Perform Hazardous Materials (HAZMATs) Incident Operations

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD1 - This training product has been reviewed by the training developers in coordination with the MSCoE, Fort Leonard Wood, MO 65473 foreign disclosure officer. This training product can be used to instruct international military students from all approved countries without restrictions.

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary	Source Information
	ATP 5-19	RISK MANAGEMENT, with change 1 dated 8 Sep 2014	Yes	No	
	ERG2008	Department of Transportation Emergency Response Guidebook.	Yes	No	
	NFPA	National Fire Protection Association, Fire Protection Guide on Hazardous Materials, Eighth Edition	Yes	No	
	NFPA 472HB02	Hazardous Materials Response Handbook, 5th Edition	Yes	Yes	
	NFPA 473 2013 ED	National Fire Protection Association, Standard for Competencies for EMS Personnel Responding to Hazardous Materials Incidents, 2013 Ed	Yes	No	
	TM 3-34.30	Firefighting	Yes	No	

Conditions: The fire and emergency services (F&ES) team is directed to respond to a suspected hazardous materials (HAZMAT) incident within the team's area of operations (AO). The element has all assigned personnel and equipment and a unit standing operating procedure (SOP) for responding to fires and other emergency situations.

Note: The Commander must still determine at what level of training he/she would want the element to perform: crawl, walk, or run. This can only be determined after consideration as to the unit's training level.

The Commander, prior to evaluating an element in the conduct of the task, must determine if it will be conducted in a Live, Virtual, or Constructive environment; additionally, it must also be determined under which condition described below that the element will conduct the task. The selection made for this task is at a trained level of proficiency. The commander must determine which of the environments below will best suit the unit at its current proficiency level. When conducting crawl or walk level training, the unit should not increase the intensity until it has achieved the standards, at which time unit trainers should include variables that increase proficiency in all conditions.

Note: The condition statement for this task is written assuming the highest training conditions reflected on the Task Proficiency matrix required for the evaluated unit to receive a "fully trained" (T) rating.

Note: Condition terms definitions:

Dynamic Operational Environment: Three or more operational and two or more mission variables change during the execution of the assessed task. Operational variables and threat Tactics, Techniques, and Procedures (TTPs) for assigned counter-tasks change in response to the execution of Blue Forces (BLUFOR) tasks.

Complex Operational Environment: Changes to four or more operational variables impact the chosen friendly COA/mission. Brigade and higher units require all eight operational variables of Political, Military, Economic, Social, Infrastructure, Information, Physical environment, and Time (PMESII-PT) to be replicated in varying degrees based on the task being trained.

Single threat: Regular, irregular, criminal or terrorist forces are present.

Hybrid threat: Diverse and dynamic combination of regular forces, irregular forces, and/or criminal elements all unified to achieve mutually benefiting

effects.

Some iterations of this task should be performed in MOPP 4.

Standards: The engineer F&ES team responds to the site of the reported HAZMAT incident and performs HAZMAT incident operations, resulting in the containment, control or termination of the incident. The element performs the task in accordance with National Fire Protection Agency (NFPA) codes and standards, without causing personnel injuries or equipment loss, while rescuing victims without causing further injury and limiting the negative impact on the environment.

Note: Leaders are defined as the Detachment Commander, Fire Chief and Fire Inspector.

Live Fire: No

Objective Task Evaluation Criteria Matrix:

Plan and Prepare		Execute					Assess		
Operational Environment	Training Environment (L/V/C)	Leaders Present at Training/Required	Present at Training/Required	External Eval	Performance Measures	Critical Performance Measures	Leader Performance Measures	Evaluator's Observed Task Proficiency Rating	Commander's Assessment
SQD & PLT									
Dynamic (Single Threat)	Night	>=85%	>=80%	Yes	>=91%	All	>=90%	T	T
	Day	75-84%			80-90%		80-89%	T-	T-
Static (Single Threat)	Day	65-74%	75-79%	No	65-79%	<All		P	P
		60-64%	60-74%		51-64%			P-	P-
		<=59%	<=59%		<=50%		<=79%	U	U

Remarks: None

Notes: 1. Task steps marked with ** will only be performed by personnel who hold HAZMAT Technician or higher level certification.

2. All required references and technical manuals will be provided by the local command.

Safety Risk: High

Task Statements

Cue: None

DANGER

Do not attempt to take on an incident if crews do not have the proper hazmat equipment. Failure to comply may result in death or permanent injury.

Leaders have an inherent responsibility to conduct Risk Management to ensure the safety of all Soldiers and promote mission accomplishment.

WARNING

Ensure that manning requirements for certified on scene personnel are fulfilled in accordance with NFPA standards and guidelines. Failure to comply may result in death or permanent injury.

Risk management is the Army's primary decision-making process to identify hazards, reduce risk, and prevent both accidental and tactical loss. All Soldiers have the responsibility to learn and understand the risks associated with this task.

CAUTION

The crew will only perform rescue operations if their safety is assured.

Identifying hazards and controlling risks across the full spectrum of Army functions, operations and activities is the responsibility of all Soldiers.

- + 11. The engineer F&ES team conducts overhaul operations.
- + 12. The engineer F&ES team performs field decontamination procedures as directed by the SFO.
- +* 13. The SFO conducts termination debriefing.
 - + a. Informs responders of what hazmat was involved and signs and symptoms of exposure.
 - + b. Provides information for personal exposure records.
 - + c. Identifies equipment damage and other unsafe conditions that require immediate attention or isolation for further actions.
- + 14. The engineer F&ES team performs recovery operations.
 - a. Performs preventive maintenance checks and services (PMCS) on all assigned equipment.
 - b. inventories and stores all equipment in accordance with unit SOP.
- 15. The engineer F&ES team conducts an after action review (AAR).
- +* 16. The SFO files reports in accordance with unit SOP or guidance from higher HQ.

Task Performance Summary Block										
Training Unit			ITERATION							
			1		2		3		4	
Date of Training per Iteration:										
Day or Night Training:			Day / Night		Day / Night		Day / Night		Day / Night	
			#	%	#	%	#	%	#	%
Total Leaders Authorized		% Leaders Present								
Total Soldiers Authorized		% Soldiers Present								
Total Number of Performance Measures		% Performance Measures 'GO'								
Total Number of Critical Performance Measures		% Critical Performance Measures 'GO'								
Live Fire, Total Number of Critical Performance Measures		% Critical Performance Measures 'GO'								
Total Number of Leader Performance Measures		% Leader Performance Measures 'GO'								
MOPP LEVEL										
Evaluated Rating per Iteration T, T-, P, P-, U										

Mission(s) supported: None

MOPP 4: Sometimes

MOPP 4 Statement: None

NVG: Never

NVG Statement: None

Prerequisite Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
	05-DET-5412	Perform Mission Command Over Firefighting Teams	05 - Engineers (Collective)	Approved

Supporting Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
3.	71-CO-5100	Conduct Troop Leading Procedures	71 - Mission Command (Collective)	Approved
16.	05-CO-0018	Conduct Report Procedures	05 - Engineers (Collective)	Approved

OPFOR Task(s):

Task Number	Title	Status
71-CO-8502	OPFOR Execute an Ambush	Approved
71-CO-8504	OPFOR Execute a Reconnaissance Attack	Approved

Supporting Individual Task(s):

Step Number	Task Number	Title	Proponent	Status
	052-249-1102	Perform Fire Pump Operations	052 - Engineer (Individual)	Approved
	052-249-1103	Don Protective Clothing	052 - Engineer (Individual)	Approved
	052-249-1111	Load a Hose	052 - Engineer (Individual)	Approved
	052-249-1112	Conduct Hose Lays	052 - Engineer (Individual)	Approved
	052-249-1113	Advance a Hose Line	052 - Engineer (Individual)	Approved
	052-249-1114	Operate a Nozzle	052 - Engineer (Individual)	Approved
	052-249-1124	Calculate Pump Operating Pressure	052 - Engineer (Individual)	Approved
	052-249-1131	Perform Rescue Carries	052 - Engineer (Individual)	Approved
	052-249-1137	Operate a Self-Contained Breathing Apparatus	052 - Engineer (Individual)	Approved
	052-249-1147	Perform Hazmat Operations at the Hazmat Operational Level	052 - Engineer (Individual)	Approved
	052-249-1162	Perform Hose Load Finishes	052 - Engineer (Individual)	Approved
	052-249-2113	Manage a Personnel Accountability System	052 - Engineer (Individual)	Approved
	052-249-2123	Respond to a Hazmat Incident	052 - Engineer (Individual)	Approved
	052-249-3101	Maintain Records and Reports	052 - Engineer (Individual)	Approved
	052-249-3107	Perform a Size-Up of a Hazmat Incident	052 - Engineer (Individual)	Approved
	052-249-4116	Perform Incident Command of a Hazmat Incident	052 - Engineer (Individual)	Approved
	052-250-9103	Develop the Environmental Appendix to the Engineer Annex	052 - Engineer (Individual)	Approved

Supporting Drill(s): None

Supported AUTL/UJTL Task(s):

Task ID	Title
ART 6.6.1.7	Provide Fire and Emergency Services

TADSS

TADSS ID	Title	Product Type	Quantity
No TADSS specified			

Equipment (LIN)

LIN	Nomenclature	Qty
HA4032	Test Set Self Contained Breathing Apparatus (SCBA)	1
T56383	Truck Utility Expanded Capacity Enhanced 4x4: M1165A1	1
T82180	Truck: Tactical Firefighting 8x8 Heavy EXP MOV	1
M31997	M1158 Truck: HEMTT Based Water Tender	1
R68044	Radio Set: AN/VRC-90F(C)	1

Materiel Items (NSN)

NSN	LIN	Title	Qty
No materiel items specified			

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to the current Environmental Considerations manual and the current GTA Environmental-related Risk Assessment card. .

Safety: In a training environment, leaders must perform a risk assessment in accordance with current Risk Management Doctrine. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW current CBRN doctrine. .