Training and Evaluation Outline Report

Status: Approved
10 Dec 2014
Effective Date: 30 Nov 2016

Task Number: 05-PLT-5811

Task Title: Conduct Underwater Excavation

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Destruction Notice: None
Foreign Disclosure: FD1 - This training product has been reviewed by the training developers in coordination with the Fort Leonard Wood MSCoE 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
	ATP 5-19 (Change 001 09/08/2014 78 Pages)	RISK MANAGEMENT http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/atp5_19.pdf	Yes	No
	TM 3-34.62	Earthmoving Operations (MCRP 3-17.71)	Yes	Yes

Conditions: The unit has been issued a construction directive requiring them to conduct underwater excavation operations. An engineer reconnaissance report and plans containing specific information on port facilities are available from the Operations and Training Officer (US Army) (S3). Respective intelligence information is available from the Intelligence Officer (US Army) (S2). Authorized equipment and personnel are available.

Note: The Commander must still determine at what level of training they would want the element to perform. Crawl, walk or run. This can only be determined after consideration as to the units 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 which condition as 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 and the proficiency level at which the unit is. When conducting crawl or walk level training units should not increase the intensity until the unit has achieved the standards and then 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.

This task should not be trained in MOPP 4.

Standards: Excavation is completed no later than the specified time in the Critical Path Method (CPM) and to the specification in the construction directive and plans. All excavation material will be located so as not to interfere with continuing excavation operations.

Note: Leaders are defined as the Commander, Executive Officer, First Sergeant, Operations Sergeant, Platoon Leaders, Platoon Sergeants, Squad Leaders, and Team Leaders.

Live Fire Required: No

Objective Task Evaluation Criteria Matrix:

Plan and Prepare			Execute						Assess
Operational Environment		Training Environment (L/V/C)	% of Leaders Present at Training/Authorized	% of Soldiers Present at	External Eval	% Performance Measures 'GO'	% Critical Performance Measures 'GO'	% Leader Performance Measures 'GO'	Task Assessment
SQD & PLT									
Dynamic (Single Threat)	Day	IAW unit CATS statement.	>=85%	>=80%	Yes	>=91%	All	>=90%	**T**
			75-84%			80-90%		80-89%	**T-**
Static (Single Threat)			65-74%	75-79%	No	65-79%			**P**
			60-64%	60-74%		51-64%	<All	<=79%	**P-**
			<=59%	<=59%		<=50%			**U**

Remarks: None

Notes: None

Safety Risk: Medium

Task Statements

Cue: None

DANGER

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

WARNING

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

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

Performance Steps and Measures

NOTE: Assess task proficiency using the task evaluation criteria matrix.

NOTE: Asterisks (*) indicate leader steps; plus signs (+) indicate critical steps.

STEP/MEASURE	GO	NO-GO	N/A
+* 1. The unit leaders conduct Troop Leading Procedures (TLP).			
+ 2. The unit analyzes all port intelligence reports and assembles the site information.			
+ a. Identifies the present structural stability of the site.			
+ b. Ensures that all materials are available for construction use.			
+ c. Conducts a site evaluation.			
+ d. Identifies and marks the construction area.			
+ 3. The unit excavates underwater material.			
+ a. Establishes a site layout.			
+ b. Establishes a stable site for equipment operation.			
+ c. Moves the equipment into position for operation.			
+ d. Excavates underwater material according to the Operation Order (OPORD).			
+ e. Transports/stockpiles excavated material.			
+ 4. The unit excavates the construction area according to the OPORD.			
+ a. Surveys the excavated area.			
+ b. Identifies discrepancies in the excavation.			
+ c. Corrects all discrepancies.			
+* 5. The unit leader submits status reports to the appropriate Headquarters (HQ) according to the unit Standing Operating Procedure (SOP) or OPORD.			

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL PERFORMANCE MEASURES EVALUATED							
TOTAL PERFORMANCE MEASURES GO							
TRAINING STATUS GO/NO-GO							

ITERATION: **1 2 3 4 5 M**

COMMANDER/LEADER ASSESSMENT: **T P U**

Mission(s) supported: None

MOPP 4: Never

MOPP 4 Statement: None

NVG: Never

NVG Statement: None

Prerequisite Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
	05-PLT-5116	Provide Excavation Support	05 - Engineers (Collective)	Approved

Supporting Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
1.	71-CO-5100	Conduct Troop Leading Procedures for Companies	71 - Combined Arms (Collective)	Approved
3.	05-PLT-5144	Perform Dump Truck-Hauling Operations	05 - Engineers (Collective)	Approved
5.	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
	052-210-1222	Manage Preliminary Site Survey (Topographical/Radial Survey)	052 - Engineer (Individual)	Approved
	052-238-1639	Chart a Dive	052 - Engineer (Individual)	Approved
	052-255-1166	Perform Ditching Operations With a Hydraulic Excavator	052 - Engineer (Individual)	Approved
	052-256-3049	Direct Crane Operations	052 - Engineer (Individual)	Approved
	052-306-7101	Direct Construction Site Reconnaissance	052 - Engineer (Individual)	Approved
	052-306-7106	Interpret Construction Documents	052 - Engineer (Individual)	Approved
	052-IC4-1164	Perform Clamshell Operations	052 - Engineer (Individual)	Approved

Supporting Drill(s): None

Supported AUTL/UJTL Task(s):

Task ID	Title
ART 4.1.7.3	Provide Technical Engineer Support

TADSS

TADSS ID	Title	Product Type	Quantity
No TADSS specified			

Equipment (LIN)

LIN	Nomenclature	Qty
X44403	Truck Dump: 20 Ton Diesel Engine Driven 12 Cubic Yard Capacity (CCE): M917	1
E27792	EXC MULTI CRAWL W/AOA	1
T34437	Tractor Wheeled: Diesel 4x4 wExcavator and Front Loader	1
C36586	Crane: Wheel Mounted Hydraulic 25 Ton All Terrain AT422T	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 ATP 5-19, Risk Management. 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 FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. .