Training and Evaluation Outline Report

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Task Number: 05-PLT-0313

Task Title: Construct Revetments

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 Fort Leonard Wood, MO 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 3-37.34	SURVIVABILITY OPERATIONS	Yes	Yes
	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

Conditions: The element is directed to construct revetments. Plans, specifications and all required construction materials are available. All assigned personnel and equipment are available. Security is provided by the supported element.

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: The element constructs revetments according to the plans and specifications, completing the project not later than the time specified.

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)	Night	IAW unit CATS statement.	>=85%	>=80%	Yes	>=91%	All	>=90%	**T**
	Day		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: Low

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 element leader conducts Troop Leading Procedures (TLP).			
a. Conducts preliminary construction planning.			
b. Requests augmentation support if required.			
+* 2. The element leader conducts detailed project planning.			
a. Conducts a site visit if conditions allow.			
+ b. Selects equipment best suited for the mission.			
+ 3. The element establishes work site security.			
+ 4. The element constructs the revetments.			
+ a. Determines the soil type.			
+ b. Adjusts the revetment dimensions, as necessary, based on the soil type.			
+ c. Aligns the revetment walls according to the construction directive.			
+ d. Compacts the revetment according to the construction directive.			
+ e. Provides site drainage.			
f. Monitors the progress of the construction.			
+* 5. The element leader submits the required reports according to the unit standing operating procedure (SOP).			

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): None

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-3006	Establish Work Site Security for a General Engineering Mission	05 - Engineers (Collective)	Approved
4.	05-PLT-5114	Provide Construction Site Drainage	05 - Engineers (Collective)	Approved
5.	05-CO-0018	Conduct Report Procedures	05 - Engineers (Collective)	Approved

OPFOR Task(s):

Task Number	Title	Status
71-2-9002	OPFOR Ambush(Company and below)	Approved
71-CO-9004	OPFOR Reconnaissance Attack (Company and below)	Approved

Supporting Individual Task(s):

Step Number	Task Number	Title	Proponent	Status
	052-12T-3401	Review Drawings and Sketches	052 - Engineer (Individual)	Approved
	052-12V-1036	Produce Concrete With an M5 Concrete Mobile Mixer	052 - Engineer (Individual)	Approved
	052-210-1244	Design Specification Proposals for a Vertical-Construction Project	052 - Engineer (Individual)	Approved
	052-236-1166	Construct a Concrete-Slab Form	052 - Engineer (Individual)	Approved
	052-236-1168	Place Concrete	052 - Engineer (Individual)	Approved
	052-239-3039	Supervise the Construction of Concrete Forms and Structures	052 - Engineer (Individual)	Approved
	052-243-1302	Modify a Standard Army Facilities Component System (AFCS) Drawing	052 - Engineer (Individual)	Approved
	052-243-1513	Perform Layout of a Construction Project	052 - Engineer (Individual)	Approved
	052-243-3029	Design Concrete Mix	052 - Engineer (Individual)	Approved
	052-253-1051	Compact Loose Material with a High-Speed Tamping Foot Compactor	052 - Engineer (Individual)	Approved
	052-253-1206	Backfill an Area Using a Small-Emplacement Excavator (SEE)	052 - Engineer (Individual)	Approved
	052-254-1037	Construct a Ditch With a Crawler Tractor	052 - Engineer (Individual)	Approved
	052-254-1041	Backfill Material Around a Below-Ground Structure Using a Crawler Tractor	052 - Engineer (Individual)	Approved
	052-254-1057	Backfill With a Scoop Loader	052 - Engineer (Individual)	Approved
	052-254-1059	Excavate With a Scoop Loader	052 - Engineer (Individual)	Approved
	052-254-1061	Move a Load With a Scoop Loader Clamshell	052 - Engineer (Individual)	Approved
	052-254-2041	Construct a Berm With a Crawler Tractor	052 - Engineer (Individual)	Approved
	052-254-2047	Construct a Berm With a Motorized Scraper	052 - Engineer (Individual)	Approved
	052-256-3020	Interpret a Construction Print	052 - Engineer (Individual)	Approved
	052-256-3033	Direct Construction of Protective Earth Walls and Berms	052 - Engineer (Individual)	Approved
	052-256-3042	Direct Drainage Operations	052 - Engineer (Individual)	Approved
	052-256-3043	Direct Crawler Tractor Operations	052 - Engineer (Individual)	Approved
	052-256-3046	Direct Compaction Operations	052 - Engineer (Individual)	Approved
	052-256-3047	Direct Scoop Loader Operations	052 - Engineer (Individual)	Approved
	052-256-3048	Direct Utility Tractor Operations	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

Supporting Drill(s): None

Supported AUTL/UJTL Task(s):

Task ID	Title
ART 6.6.1.3.1	Construct Protective Earth Walls, Berms, and Revetments

TADSS

TADSS ID	Title	Product Type	Quantity
No TADSS specified			

Equipment (LIN)

LIN	Nomenclature	Qty
L77147	Loader Skid Steer: Type II	1
T34505	Tractor Wheeled: Industrial	1
E27860	EXC HYEX JD330LCR MUL	1
E41791	HYEX MULTI JD230LC-RD	1
T76541	Tractor Full Tracked High Speed: Deployable Light Engineer (DEUCE)	1
Z01137	Combat Dozer Blade: (ABV)	1
L77215	Loader Skid Steer: Type III	1

Materiel Items (NSN)

NSN	LIN	Title	Qty
8015-00-142-9345		Bag Sand MIL52472T1-2	1
8150-00-285-4744		Bag Sand Burlap	1

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. .