Training and Evaluation Outline Report

Status: Approved 29 Mar 2021 Effective Date: 29 Mar 2021

Task Number: 05-PLT-5307

Task Title: Install Liquid Storage Facilities

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 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 3-34.40	General Engineering (http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/atp3_34x40.pdf)	Yes	Yes	
	ATP 4-43	Petroleum Supply Operations	Yes	No	
	ATP 5-19	RISK MANAGEMENT, with change 1 dated 8 Sep 2014	Yes	No	
	TM 3-34.70	Plumbing, Pipe Fitting, and Sewerage	Yes	No	

Conditions: The element is directed to install liquid storage facilities at a designated, prepared, and secured site. An engineer reconnaissance report containing specific information is available from the Operations and Training Officer (US Army) (S3). Respective intelligence information is available from the Intelligence Officer (US Army) (S2). All necessary personnel and equipment are available. A Tactical Standard Operating Procedures (TACSOP) order or directive, plans and specifications are provided.

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:

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.

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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 installs the liquid storage facilities within the manufacturer's specifications. In accordance with unit TACSOP, plans and specifications. No later than the time established on the directive.

Note: Leaders are defined as the Platoon Leaders, Platoon Sergeants, Squad Leaders, and Team Leaders.

Live Fire: No

Objective Task Evaluation Criteria Matrix:

Plan	an	d Prepare		Ex	ec	ute			Ass	ess
Operations Environme	al ent	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
Dynamic			>=85%	. 90%	Yes	>=91%		>=90%	Т	Т
Dynamic (Single Threat)		IAV	75-84%	>=80%	es	80- 90%	All	80-	T-	T-
	Day	IAW unit CATS statement.	65-74%	75-79%		65- 79%	89%	89%	Р	Р
Static (Single Threat)		ant.	60-64%	60-74%	No	51- 64%	٨١١	700/	P-	P-
			<=59%	<=59%		<=50%	<all< td=""><td><=79%</td><td>U</td><td>U</td></all<>	<=79%	U	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.

d. Performs a general policing of the area.

+* 8. The unit leader submits status reports to higher headquarters (HQ).

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.			
a. Conducts preliminary construction planning.			
b. Requests augmentation support if required.			
+* 2. The unit leader establishes work site security.			
+* 3. The unit leader verifies that the site corresponds with the plot plan.			
+ a. Ensures that the correct dimensions and spacing are established.			
+ b. Ensures that the finish grade met drainage and compaction requirements.			
+ c. Ensures that berm and pad constructions are according to the construction specifications.			
+ 4. The element prepares the storage tanks for installation.			
a. Places the tank shipping pallet in the center of the pad.			
+ b. Removes the security straps from the tank.			
Note: Does not lift the tank without the use of slings and some form of lifting device. The traffic on Sharp items should not be dropped onto the tank.	the tank itself s	hould be kept to	a minimum.
c. Unrolls one end of the tank at a time by pushing the roll.			
+ d. Gently removes the skid pallet from underneath the tank (this minimized the chances of ripping or tearing the tank fabric).			
+ e. Unfolds the tank by using the deployment straps and tank handles.			
+ 5. The element configures the tank for storage operations.			
+ a. Installs the drain hoses according to the established procedures.			
+ b. Digs a shallow trench for the placement of hose lines.			
+ c. Installs a vent assembly.			
+ d. Smooth out all folds and ends of the tank.			
+ e. Positions valves, hose lines, connectors, T assemblies, and the pumping unit into place.			
+ 6. The element ties all components into the proper position.			
+ a. Connects all necessary hardware according to the pertinent technical specifications.			
b. Installs subsequent bladders into the system as required.			
+ c. Installs a range pole in each berm on opposite sides of the bladder.			
+* 7. The element leader inspects the site.			
+ a. Verifies that all components are correctly installed and properly fitted (such as, clamps, gasket, cam-lock devices).			
+ b. Ensures that hose lines run parallel to the tank edge to prevent straining of the tank nozzles.			
+ c. Ensures that the berm and pad did not sustain damage during construction.			
	1	1	

Task Performance Summary Block									
Training Un	ITERATION								
			1		2	3		4	
Date of Training per	r Iteration:								
Day or Night Tra	aining:	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 LEVE	ĒL								
Evaluated Rating pe T, T-, P, P-,	Evaluated Rating per Iteration T, T-, P, 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-CO-5250	Perform Construction Operations	05 - Engineers (Collective)	Approved

Supporting Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
1.	71-CO-5100	Conduct Troop Leading Procedures	71 - Mission Command (Collective)	Approved
2.		Establish Work Site Security for a General Engineering Mission	05 - Engineers (Collective)	Approved
8.	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
	052-120-5111	Develop Project Design Utilizing Standard Capability Tools	052 - Engineer (Individual)	Approved
	052-239-3001	Prepare a Bill of Materials	052 - Engineer (Individual)	Approved
	052-239-3029	Schedule Work	052 - Engineer (Individual)	Approved
	052-239-3030	Read Construction Prints	052 - Engineer (Individual)	Approved
	052-239-3036	Supervise the Installation of Pipelines	052 - Engineer (Individual)	Approved
	052-248-2004	Emplace a Collapsible Tank	052 - Engineer (Individual)	Approved

Supporting Drill(s): None

Supported AUTL/UJTL Task(s):

Task ID	Title
ART 4.1.7.2.6	Construct Petroleum Distribution Systems

TADSS

TADSS ID	Title	Product Type	Quantity
No TADSS specified			

Equipment (LIN)

LIN	Nomenclature	Qty
K49775 (no longer in FEDLOG)	Invalid LIN – Do Not Use	1
T61494	Truck Utility: Cargo/Troop Carrier 1-1/4 Ton 4x4 W/E (HMMWV): M998	1
T61908	Truck Cargo: MTV W/E: M1083	1
T64911	Truck Dump: MTV W/E: M1090	1
W48348	Tool Kit Pioneer Engineer Squad: Land Clearing and Building Erection	1
W94536	Trailer Bolster: General Purpose 4 Ton 4 Wheel WE	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.