Training and Evaluation Outline Report

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

Task Number: 05-PLT-5306

Task Title: Install Pipeline Pumping Stations

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	No	
	ATP 4-43	Petroleum Supply Operations	Yes	Yes	
	ATP 5-19	RISK MANAGEMENT, with change 1 dated 8 Sep 2014	Yes	No	
	NTRP 4-04.2.5/TM 3-34.42/AFPAM 32-1020/MCRP 3-17.7F	Construction Project Management (HTTPS://NDLS.NWDC.NAVY.MIL) (https://armypubs.us.army.mil/doctrine/DR_pubs/dr_aa/pdf/tm3_34x42_PH_Navy.pdf)	Yes	No	

Conditions: The element is directed to install a pipeline pumping station at a designated, prepared, and secured site. An order, Tactical Standing Operating Procedure (TACSOP), directive, plans and specifications are provided along with an engineer reconnaissance report containing specific information 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.

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 installs the pipeline pumping station in accordance with the order, TACSOP, directive, plans and specifications; no later than the time specified in the order or 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 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)	Day	IAW unit CATS statement.	>=85%	>=80%	Yes	>=91%	All	>=90%	**T**	**T**
			75-84%			80-90%		80-89%	**T-**	**T-**
Static (Single Threat)			65-74%	75-79%	No	65-79%			**P**	**P**
			60-64%	60-74%		51-64%	<All	<=79%	**P-**	**P-**
			<=59%	<=59%		<=50%			**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.

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 element leader conducts detailed project planning.			
a. Conducts site visit if conditions allow.			
+ b. Selects equipment and personnel for construction.			
+ 3. The element prepares for pump station installation.			
+ a. Unloads and inventories the pumping station components from the ISO containers.			
+ b. Identifies and marks locations for pumps, strainers, launchers, receivers, and fuel storage bladders.			
+ 4. The element installs the pump station according to plans and specifications.			
+ a. Positions the mainline pumps, the strainer, the launcher, and the receiver.			
Note: Ground all equipment during installation.			
+ b. Levels and stakes down mainline pumps, launcher, receiver, and strainer to minimize the movement caused by operation vibration.			
+ c. Installs a collapsible fuel storage bladder with liner and surrounding berm into the system.			
d. Erects a pump station shelter, if required.			
+* 5. The element leader submits status reports to higher HQ in accordance with unit standing operating procedure (SOP).			

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: Never

MOPP 4 Statement: None

NVG: Never

NVG Statement: None

Prerequisite Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
1.	05-PLT-5215	Install a Coupled Pipeline	05 - Engineers (Collective)	Approved

Supporting Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
1.	71-PLT-5100	Conduct Troop Leading Procedures	71 - Mission Command (Collective)	Approved
2.	05-CO-0017	Conduct Engineer Augmentation Support Planning	05 - Engineers (Collective)	Approved
2.	05-CO-5001	Perform Project Management	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
	052-120-5100	Develop Base Camp Master Plan	052 - Engineer (Individual)	Approved
	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
	052-243-2201	Check Drawings and Sketches	052 - Engineer (Individual)	Approved
	052-248-1016	Install Components With a Pumping Station	052 - Engineer (Individual)	Approved
	052-248-2003	Emplace a Flexible Hose Line	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
MC8063	Tool Kit Supplemental, Pipeline C	1
W65884	Tool Kit, Supplement, Pipeline Pump Sta, 4, 6, and 8 Inch	1
E27792	EXC MULTI CRAWL W/AOA	1
S70594	STLR LB 40T 6W M870A3	1
T61908	Truck Cargo: MTV W/E: M1083	1
W34511	Tool Kit Carpenters: Engineer Platoon wChest	1
W48348	Tool Kit Pioneer Engineer Squad: Land Clearing and Building Erection	1
W76816	Tractor Full Tracked Low Speed: Diesel Med DBP wBULDOZ wSCARIF Winch	1
X48914	Truck Lift Fork: Diesel Driven 6000 Lb Capacity Rough Terrain	1
Y48323	Welding Shop Trailer Mounted	1
T91656	Truck Tractor: Let 6x6 66000 GVW W/Winch C/S: M916	1
W48759	Tool Kit Pipefitters: 2-12 to 4 Inch Pipe	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. .