

Training and Evaluation Outline Report

Status: Approved

10 Oct 2014

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Task Number: 05-PLT-5801

Task Title: Construct Harbor Craft Repair 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 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 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
	NTRP 4-04.2.3/TM 3-34.41/AFPAM 32-1000	Construction Estimating (HTTPS://NDLS.NWDC.NAVY.MIL) https://armypubs.us.army.mil/doctrine/DR_pubs/dr_aa/pdf/tm3_34x41_PH_Navy.pdf	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
	TM 3-34.73	PORT CONSTRUCTION AND REPAIR	Yes	Yes

Conditions: The element is directed to construct harbor craft repair facilities. The element is provided a construction directive, plans and specifications, a critical path method (CPM), and all required bill of materials (BOM). All authorized equipment and personnel are available. Security is provided by the supported unit.

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 the harbor craft repair facilities to the standards dictated in the plans and specifications.

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 (LV/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)	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%	<All	<=79%	P
		60-64%	60-74%		51-64%			P-
		<=59%	<=59%		<=50%			U
Day								

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 element leaders conduct troop-leading procedures.			
a. Conducts preliminary construction planning.			
b. Requests augmentation support if required.			
+* 2. The element leader conducts detailed project planning.			
+ 3. The element lays out the site.			
+ a. Off loads, identifies, inventories and stores all materials.			
b. Identifies equipment location and parking areas.			
c. Identifies and marks the construction site.			
+ 4. The element constructs harbor craft repair facilities.			
a. Constructs a pier to the specifications.			
b. Constructs an overhead cover.			
+ c. Installs an overhead hoist assembly.			
+ d. Installs required utilities.			
Note: The expansion of the above facility is dependent on the inclusion of additional stand-alone training and evaluation outlines (T&EOs).			
+ e. Tests operability of hoist and utilities.			
+* 5. The element leader supervises the construction of the harbor craft repair facilities.			
+ a. Monitors overall safety of the work site.			
+ b. Provides technical expertise and direction.			
+ c. Manages critical path method (CPM) and makes changes as required.			
+ d. Performs quality assurance (QA) and quality control (QC) functions.			
e. Submits status reports to higher headquarters per 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):

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 for Companies	71 - Combined Arms (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-1236	Prepare a Foundation Drawing	052 - Engineer (Individual)	Approved
	052-210-1222	Manage Preliminary Site Survey (Topographical/Radial Survey)	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
	052-239-3031	Annotate Construction Print Indicating "As-Builts"	052 - Engineer (Individual)	Approved
	052-239-3033	Supervise a Building Layout	052 - Engineer (Individual)	Approved
	052-239-3035	Supervise the Construction of Wood Frame Structures	052 - Engineer (Individual)	Approved
	052-239-3036	Supervise the Installation of Pipelines	052 - Engineer (Individual)	Approved
	052-239-3038	Supervise the Installation of a Plumbing System (House)	052 - Engineer (Individual)	Approved
	052-239-3042	Supervise the Installation of an Interior Electrical System	052 - Engineer (Individual)	Approved
	052-243-1235	Prepare a Floor Plan Drawing	052 - Engineer (Individual)	Approved
	052-243-1237	Prepare a Building Elevation Drawing	052 - Engineer (Individual)	Approved
	052-243-1239	Prepare a Sectional-View Drawing	052 - Engineer (Individual)	Approved
	052-243-1240	Prepare a Detail Drawing	052 - Engineer (Individual)	Approved
	052-243-1241	Prepare a Utility Plan/Drawing	052 - Engineer (Individual)	Approved
	052-243-1302	Modify a Standard Army Facilities Component System (AFCS) Drawing	052 - Engineer (Individual)	Approved
	052-243-1305	Determine Grain Size Distribution and Gradation by Mechanical Analysis	052 - Engineer (Individual)	Approved
	052-243-1306	Conduct a Surface Moisture Test on Aggregate	052 - Engineer (Individual)	Approved
	052-243-1506	Classify a Soil Using the Unified Soil Classification System	052 - Engineer (Individual)	Approved
	052-243-1512	Establish Temporary Control Points	052 - Engineer (Individual)	Approved
	052-243-1513	Perform Layout of a Construction Project	052 - Engineer (Individual)	Approved
	052-243-1532	Prepare Preliminary Drafting Sketches	052 - Engineer (Individual)	Approved
	052-243-1605	Install Survey Stakes for Horizontal Projects	052 - Engineer (Individual)	Approved
	052-243-1606	Install Survey Stakes for Vertical Projects	052 - Engineer (Individual)	Approved
	052-243-2201	Check Drawings and Sketches	052 - Engineer (Individual)	Approved
	052-243-3029	Design Concrete Mix	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 4.1.7.2.3	Construct Ports

TADSS

TADSS ID	Title	Product Type	Quantity
No TADSS specified			

Equipment (LIN)

LIN	Nomenclature	Qty
E61618	Compactor High Speed: Tamping Self-Propelled (CCE)	1
E27792	EXC MULTI CRAWL W/AOA	1
T34437	Tractor Wheeled: Diesel 4x4 wExcavator and Front Loader	1
T64911	Truck Dump: MTV W/E: M1090	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
W34648	Tool Kit, Carpenters, Engineer Squad with Chest	1
W76816	Tractor Full Tracked Low Speed: Diesel Med DBP wBULDOZ wSCARIF Winch	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. .