

Training and Evaluation Outline Report

Status: Approved

07 Dec 2015

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Task Number: 05-PLT-5137

Task Title: Provide Borrow Pit Support

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, 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 3-34.65 | QUARRY OPERATIONS http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/tm3_34x65.pdf | Yes | Yes |

Conditions: The element is directed to provide borrow pit support. The element is currently conducting construction operations in support of Higher Headquarters (HQ). The higher HQ Operation Order (OPORD), construction directive, plans, specifications, and Standard Operating Procedures (SOP) are available. Higher HQ analysis of the Area of Operations (AO) and environment are available. All necessary personnel and equipment are available and fully mission capable. All Unexploded Ordnance (UXO) have been cleared. Coalition partners, noncombatants, and media may be present in the operational environment. The unit is not likely to be attacked.

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 provides borrow pit support in accordance with specifications and within the time indicated in the construction directive or OPORD.

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 (LW/C) | Training/Authorized | % of Leaders Present at | % 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- | |
| 65-74% | | 75-79% | No | 65-79% | | P | | | |
| 60-64% | | 60-74% | | 51-64% | | P- | | | |
| <=59% | | <=59% | | <=50% | <All | <=79% | U | | |
| Static (Single Threat) | Day | | | | | | | | |

Remarks: None

Notes: Borrow pit operations must comply with all Occupational Safety and Health Administration (OSHA), Federal, Department of Defense (DOD), Department of the Army (DA), environmental, local, and other applicable safety standards and regulations.

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. | | | |
| * c. Establishes borrow pit SOPs. | | | |
| +* d. Develops the borrow pit layout. | | | |
| (1) Determines the limits of the area to be developed. | | | |
| (2) Selects the excavation methods. | | | |
| (3) Selects the excavation equipment. | | | |
| (4) Plans access roads. | | | |
| (5) Determines the location for all structures and equipment. | | | |
| (6) Establishes a traffic control plan. | | | |
| + 3. The element establishes work site security. | | | |
| + 4. The element performs borrow pit operations. | | | |
| + a. Provides drainage to eliminate surface and seepage water. | | | |
| (1) Digs an interceptor ditch along the upper side of the borrow pit, if located on a hillside. | | | |
| (2) Directs water to a sump in the lowest part of the borrow pit floor if the floor of the site is below ground level and open ditches cannot be dug. | | | |
| b. Excavates mineral products using the appropriate equipment. | | | |
| + 5. The element maintains the borrow pit. | | | |
| + a. Uses the appropriate equipment to maintain haul roads. | | | |
| + b. Applies water to the roads during dry weather to control dust. | | | |
| + c. Removes any humps, ruts, and ridges from the borrow pit floor. | | | |
| + d. Ensures the quality and quantity of mineral products. | | | |
| * 6. The element leader submits status reports to higher headquarters according to the unit 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-5116 | Provide Excavation Support | 05 - Engineers (Collective) | Approved |
| 4. | 05-PLT-5114 | Provide Construction Site Drainage | 05 - Engineers (Collective) | Approved |
| 5. | 05-PLT-5115 | Provide Dust Control Measures | 05 - Engineers (Collective) | Approved |
| 6. | 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 |
|-------------|--------------|--|-----------------------------|----------|
| | 052-12N-1009 | Push Load a Wheel Tractor-Scraper with a Crawler Tractor | 052 - Engineer (Individual) | Approved |
| | 052-12N-4001 | Manage a Horizontal Construction Project | 052 - Engineer (Individual) | Approved |
| | 052-210-1005 | Manage Projects Using TCMS and MS Project | 052 - Engineer (Individual) | Approved |
| | 052-243-1252 | Determine Laboratory Compaction Characteristics of a Soil | 052 - Engineer (Individual) | Approved |
| | 052-243-1305 | Determine Grain Size Distribution and Gradation by Mechanical Analysis | 052 - Engineer (Individual) | Approved |
| | 052-243-1506 | Classify a Soil Using the Unified Soil Classification System | 052 - Engineer (Individual) | Approved |
| | 052-253-1059 | Pressure Fill a Water Distributor | 052 - Engineer (Individual) | Approved |
| | 052-253-1060 | Spray an Area Using a Water Distributor | 052 - Engineer (Individual) | Approved |
| | 052-254-1037 | Construct a Ditch With a Crawler Tractor | 052 - Engineer (Individual) | Approved |
| | 052-254-1038 | Construct a Stockpile With a Crawler Tractor | 052 - Engineer (Individual) | Approved |
| | 052-254-1042 | Level Fill Material in a Fill Area With the Angle Blade of a Crawler Tractor | 052 - Engineer (Individual) | Approved |
| | 052-254-1070 | Spread Fill Material With a Motorized Scraper | 052 - Engineer (Individual) | Approved |
| | 052-256-3043 | Direct Crawler Tractor Operations | 052 - Engineer (Individual) | Approved |
| | 052-256-3045 | Direct Motor Grader Operations | 052 - Engineer (Individual) | Approved |
| | 052-256-3046 | Direct Compaction Operations | 052 - Engineer (Individual) | Approved |

Supporting Drill(s): None

Supported AUTL/UJTL Task(s):

| Task ID | Title |
|---------------|--------------------------------|
| ART 4.1.7.2.8 | Produce Construction Materials |

TADSS

| TADSS ID | Title | Product Type | Quantity |
|--------------------|-------|--------------|----------|
| No TADSS specified | | | |

Equipment (LIN)

| LIN | Nomenclature | Qty |
|--------|--|-----|
| E27792 | EXC MULTI CRAWL W/AOA | 1 |
| T65274 | Truck Dump 10 Ton w/Winch | 1 |
| L15041 | Loader Scoop Type: Heavy Type II Loader | 1 |
| R11127 | ROLLER MOTORIZED W/AOA | 1 |
| E05007 | Engineer Mission Module-Water Distribution (EMM-WD): Type II | 1 |
| X44403 | Truck Dump: 20 Ton Diesel Engine Driven 12 Cubic Yard Capacity (CCE): M917 | 1 |
| W76816 | Tractor Full Tracked Low Speed: Diesel Med DBP wBULDOZ wSCARIF Winch | 1 |
| G74783 | Grader Road Motorized: Diesel Driven Heavy (CCE) | 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. .