

Training and Evaluation Outline Report

Status: Approved

07 Oct 2014

Effective Date: 24 Jan 2017

Task Number: 05-PLT-5130

Task Title: Perform Quarry Operations

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
	AR 385-10	The Army Safety Program http://www.apd.army.mil/pdf/r385_10.pdf	Yes	No
	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 3-34.62	Earthmoving Operations (MCRP 3-17.71)	Yes	No
	TM 3-34.64	Military Soils Engineering	Yes	No
	TM 3-34.65	QUARRY OPERATIONS (http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/tm3_34x65.pdf)	Yes	Yes
	TM 3-34.86	Rigging Techniques, Procedures, and Applications (MCRP 3-17.7j)	Yes	No

Conditions: The quarry team receives an Operation Order (OPORD) directing them to operate a quarry site at a designated location in support of construction operations. Site plans, drawings, and specifications are provided. Table(s) of Organization and Equipment (TOE) and required material are available.

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: Perform quarry operations to include all planning, preparation, and equipment set-up needed to produce mineral products in the quantity and quality specified in the OPORD. Follow all safety and regulatory requirements, and submits all reports and required.

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	SQUAD & PLATOON	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	
Dynamic (Single Threat)	Night	IAW unit CATS statement:	>=85%		Yes	>=91%		>=90%	T	
	Day		75-84%	>=80%		80-90%	All		T-	
Static (Single Threat)	Night		65-74%	75-79%		65-79%		80-89%	P	
	Day		60-64%	60-74%	No	51-64%			P-	
							<All	<=79%		
				<=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.

NVG Statement: None

Prerequisite Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
	05-PLT-5132	Perform Quarry Site Selection	05 - Engineers (Collective)	Approved

Supporting Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
	05-PLT-5114	Provide Construction Site Drainage	05 - Engineers (Collective)	Approved
1.	71-CO-5100	Conduct Troop Leading Procedures for Companies	71 - Combined Arms (Collective)	Approved
2.	05-PLT-1018	Perform an Engineer Reconnaissance	05 - Engineers (Collective)	Approved
4.	05-PLT-5134	Set Up Wash/Screening Equipment	05 - Engineers (Collective)	Approved
4.	05-PLT-5133	Set up Crushing Equipment	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
	052-243-1305	Determine Grain Size Distribution and Gradation by Mechanical Analysis	052 - Engineer (Individual)	Approved
	052-251-1158	Assemble a Nonelectric Firing Circuit for Quarry Blasting	052 - Engineer (Individual)	Approved
	052-251-2030	Supervise Rock-Processing Plant Setup	052 - Engineer (Individual)	Approved
	052-251-2031	Supervise the Performance of Operator's Preventive Maintenance Checks and Services (PMCS) on Quarrying and Rock-Processing Equipment	052 - Engineer (Individual)	Approved
	052-251-2041	Detonate Explosives to Excavate Quarry Rock	052 - Engineer (Individual)	Approved
	052-251-3011	Plan a Quarry Layout	052 - Engineer (Individual)	Approved
	052-251-3014	Direct Rock-Processing Plant Setup	052 - Engineer (Individual)	Approved
	052-251-3016	Supervise Rock Production Operations	052 - Engineer (Individual)	Approved
	052-251-3019	Design a Quarry Blast	052 - Engineer (Individual)	Approved
	052-251-3026	Plan a Quarry Blast	052 - Engineer (Individual)	Approved
	052-251-3828	Conduct a Quarry Blast	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
A79381	Antenna Group: OE-254()/GRC	1
C05002	Computer System Digital: AN/PYQ-10(C)	1
C05036	Computer Set Digital (JBC-P): AN/UYK-128B(V)3	1
D17191	Instrument Set Reconnaissance and Surveying: AN/TKQ-5	1
E05008	Encryption-Decryption Equipment: KGV-72	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. .