

Training and Evaluation Outline Report

Status: Approved

30 Aug 2021

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Task Number: 05-CO-1023

Task Title: Provide General Engineer Support for Mobility Operations

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Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary	Source Information
	ATP 3-90.4	Combined Arms Mobility	Yes	No	
	ATP 5-19	RISK MANAGEMENT, with change 1 dated 8 Sep 2014	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 3-34.48-1	THEATER OF OPERATIONS: ROADS, AIRFIELDS, AND HELIPORTS - ROAD DESIGN	Yes	No	
	TM 3-34.55	Construction Surveying	Yes	No	
	TM 3-34.62	Earthmoving Operations (MCRP 3-17.71)	Yes	Yes	

Conditions: The company has received a mobility support plan from the Higher Headquarters (HQ) that defines the mobility support requirements for the supported unit. The company is either operating as a single element or distributed throughout the area. Authorized equipment and personnel are available. The company may conduct portions of this task simultaneously. The enemy (any person, organization, agency, or situation that is, will be, or could be an obstacle to accomplishing the mission) can attack with mounted or dismounted forces; Close Air Support (CAS); indirect fire; or Chemical, Biological, Radiological and Nuclear (CBRN) weapons. The unit has guidance provided by the Rules Of Engagement (ROE) and from mission instructions, such as the peace mandate terms of reference, the Status of Forces Agreement (SOFA), and Rules Of Interaction (ROI). Coalition partners, civilians, governmental agencies, nongovernmental organizations, private voluntary organizations, and local and international media may be in the area and influencing operations.

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.

Some iterations of this task should be performed in MOPP 4. This task should be trained under IED Threat conditions.

Standards: The company provides support for mobility operations, ensuring that equipment and personnel are accounted for at all times. Analyze the Operation Order (OPORD) or Fragmentary Order (FRAGORD) to determine all specified and implied actions required to complete the mission. The company provides general engineering support IAW the unit tactical standard operating procedures and directives provided by the higher headquarters. The time required to perform this task is increased when conducting it in Mission-Oriented Protective Posture (MOPP) 4.

Note: Leaders are defined as the Commander, Executive Officer, First Sergeant, Operations Sergeant, 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	
CO & BN										
Dynamic and Complex (4+ OE Variables and Hybrid Threat)	Night	At the discretion of the commander.	>=75%	>=80%	Yes	>=80%	All	>=85%	T	T
									T-	T-
Dynamic (Single Threat)	Day		60-74%	60-79%	No	65-79%	<All	75-84%	P	P
									P-	P-
Static (Single Threat)		<=59%	<=59%		<=65%		<=74%	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.

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: Sometimes

MOPP 4 Statement: None

NVG: Never

NVG Statement: None

Prerequisite Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
	05-BN-0010	Provide Engineer Support to Mobility Operations	05 - Engineers (Collective)	Approved
	05-CO-0007	Prepare an Operation Order (OPORD)	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.	05-PLT-5107	Clear Airfields	05 - Engineers (Collective)	Approved
2.	05-PLT-5109	Clear Obstacles Using Engineer Equipment	05 - Engineers (Collective)	Approved
2.	05-PLT-5142	Perform Roadway Crater Repair	05 - Engineers (Collective)	Approved
2.	05-PLT-5101	Construct Combat Roads/Trails	05 - Engineers (Collective)	Approved
2.	05-CO-5142	Construct a Tactical Airstrip	05 - Engineers (Collective)	Approved
2.	05-CO-5002	Repair Airfields	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
	052-120-5113	Coordinate Engineer Support	052 - Engineer (Individual)	Approved
	052-12N-1006	Perform Operators Preventive Maintenance Checks and Services (PMCS)	052 - Engineer (Individual)	Approved
	052-12N-1007	Clear Land with a Crawler Tractor	052 - Engineer (Individual)	Approved
	052-12N-1008	Excavate with a Crawler Tractor	052 - Engineer (Individual)	Approved
	052-12N-1016	Excavate with a Wheel Loader	052 - Engineer (Individual)	Approved
	052-12N-1024	Load a Haul Unit with a Small-Emplacement Excavator	052 - Engineer (Individual)	Approved
	052-12N-1025	Excavate with a Small-Emplacement Excavator	052 - Engineer (Individual)	Approved
	052-12N-1028	Compact Material with a Self-Propelled Vibratory Roller	052 - Engineer (Individual)	Approved
	052-12N-1029	Compact Material with a Steel Wheel Roller	052 - Engineer (Individual)	Approved
	052-12N-1201	Excavate with a Wheeled Tractor-Scraper	052 - Engineer (Individual)	Approved
	052-12N-1210	Distribute Water from a Water Distributor	052 - Engineer (Individual)	Approved
	052-12N-1211	Excavate with a Deployable Universal Combat Earthmover (DEUCE)	052 - Engineer (Individual)	Approved
	052-12N-4001	Manage a Construction Project	052 - Engineer (Individual)	Approved
	052-12T-1251	Determine the Plasticity Index of a Soil	052 - Engineer (Individual)	Approved
	052-12T-1253	Determine the In-Place Soil Density by Sand Cone Method	052 - Engineer (Individual)	Approved
	052-12T-1500	Determine the Moisture Content of a Soil Using the Oven-Dry Method	052 - Engineer (Individual)	Approved
	052-12T-1502	Obtain a Representative Soil Sample	052 - Engineer (Individual)	Approved
	052-12T-1503	Determine the Specific Gravity of a Soil	052 - Engineer (Individual)	Approved
	052-12T-1512	Establish Temporary Control Points	052 - Engineer (Individual)	Approved
	052-12T-3300	Prepare a Preliminary Construction Site Analysis	052 - Engineer (Individual)	Approved
	052-12T-3412	Determine Drainage Requirements	052 - Engineer (Individual)	Approved
	052-12T-3415	Determine the Optimum Soil Stabilization Method	052 - Engineer (Individual)	Approved
	052-12V-1036	Produce Concrete with an M5 Concrete Mobile Mixer	052 - Engineer (Individual)	Approved
	052-12W-1168	Place Concrete	052 - Engineer (Individual)	Approved
	052-194-7138	Direct Obstacle Clearance	052 - Engineer (Individual)	Approved
	052-227-1103	Operate the Winch of an Armored Combat Earthmover (ACE), M9	052 - Engineer (Individual)	Approved
	052-227-1200	Perform Dozing Operations with an Armored Combat Earthmover (ACE), M9	052 - Engineer (Individual)	Approved
	052-227-1225	Operate an Armored Combat Earthmover (ACE), M9	052 - Engineer (Individual)	Approved
	052-227-1240	Perform Scraper Operations with an Armored Combat Earthmover (ACE), M9	052 - Engineer (Individual)	Approved
	052-243-1601	Perform a Preliminary Site Survey (Topographic/Radial Survey) with a Total Station Survey Instrument	052 - Engineer (Individual)	Approved
	052-256-3036	Direct Equipment in Obstacle Removal	052 - Engineer (Individual)	Approved
	052-256-3044	Direct Motorized Scraper Operations	052 - Engineer (Individual)	Approved
	052-256-3046	Direct Compaction Operations	052 - Engineer (Individual)	Approved
	052-256-3054	Direct Runway/Bomb Crater Repairs	052 - Engineer (Individual)	Approved
	052-256-4151	Supervise the Construction of a Road	052 - Engineer (Individual)	Approved
	052-256-7121	Interpret Soil Classification Results	052 - Engineer (Individual)	Approved
	052-256-7126	Plan the Construction of Combat Roads and Airfields	052 - Engineer (Individual)	Approved
	052-256-7128	Plan Concrete Operations	052 - Engineer (Individual)	Approved

Supporting Drill(s):

Step Number	Drill Number	Drill Title	Drill Type	Proponent	Status
	05-SQD-D0005	React to an IED Attack While Mounted or Dismounted	Battle Drill	05 - Engineers (Collective)	Approved
	05-SQD-D0006	Perform 5/25/200 Meter Checks.	Battle Drill	05 - Engineers (Collective)	Approved
	05-SQD-D0007	React to an IED	Battle Drill	05 - Engineers (Collective)	Approved

Supported AUTL/UJTL Task(s):

Task ID	Title
ART 1.6	Conduct Mobility Operations
ART 4.1.7	Provide General Engineering Support

TADSS

TADSS ID	Title	Product Type	Quantity
No TADSS specified			

Equipment (LIN)

LIN	Nomenclature	Qty
H05004	Hydraulic Electric Pneumatic Petroleum Operate Equipment: (HEPPOE)	1
T73347	Truck Lift: Fork Variable Reach Rough Terrain	1
T93271	Truck Cargo: LWB woWinch	1
W98825	Trailer Tank: Water 400 Gallon 1-1/2 Ton 2 Wheel W/E	1
L15041	Loader Scoop Type: Heavy Type II Loader	1
T34437	Tractor Wheeled: Diesel 4x4 wExcavator and Front Loader	1
T65274	Truck Dump 10 Ton w/Winch	1
T05015	Tractor Full Tracked Low Speed: T9	1
T05016	Tractor, Full Tracked: Low Speed - T9 Type II with Ripper	1
R11127	ROLLER MOTORIZED W/AOA	1
R45543	Radio Set: AN/VRC-92F(C)	1
R68044	Radio Set: AN/VRC-90F(C)	1
A79381	Antenna Group: OE-254()/GRC	1
C05002	Computer System Digital: AN/PYQ-10(C)	1
R68146	Radio Set: AN/VRC-91F(C)	1
C05036	Computer Set Digital (JBC-P): AN/UYK-128B(V)3	1
L77215	Loader Skid Steer: Type III	1
E27792	EXC MULTI CRAWL W/AOA	1
S70594	STLR LB 40T 6W M870A3	1
T60946	Truck Tractor: (LET)	1
M05001	Motorized Grader	1
S05029	Scraper Earthmoving: 14-18 Cubic Yard	1
E05007	Engineer Mission Module-Water Distribution (EMM-WD): Type II	1
E61618	Compactor High Speed: Tamping Self-Propelled (CCE)	1
L77147	Loader Skid Steer: Type II	1
T65342	Truck Dump 10 Top wo/Winch	1
T81874	Truck: Palletized Loading	1
X44403	Truck Dump: 20 Ton Diesel Engine Driven 12 Cubic Yard Capacity (CCE): M917	1
H53576	High Mobility Eng Excavator (HMEE): Type I	1
T93761	Trailer: Palletized Loading 8x20	1
T95555	Trailer Cargo: MTV wDropsides M1095	1
T76541	Tractor Full Tracked High Speed: Deployable Light Engineer (DEUCE)	1

Materiel Items (NSN)

NSN	LIN	Title	Qty
6665-01-504-7769	D03932	Detecting Set, Mine: AN/PSS-14	1
6675-01-559-6558	D17191	Instrument Set Reconnaissance and Surveying: ANTKQ-5	1
6675-01-593-5960	D17191	Instrument Set Reconnaissance and Surveying: ANTKQ-5	1

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. .