

Training and Evaluation Outline Report

Status: Approved

05 Jan 2016

Effective Date: 05 Oct 2016

Task Number: 05-PLT-5124

Task Title: Provide Construction Project Asphalt 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
	DD FORM 1207	GRAIN SIZE DISTRIBUTION GRAPH - AGGREGATE GRADATION CHART (AVAILABLE ON DOD WEBSITE)	Yes	No
	DD FORM 1217	BITUMINOUS MIX DESIGN - AGGREGATE BLENDING	Yes	No
	DD FORM 1219	BITUMINOUS MIX CURVES	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 3-34.62	Earthmoving Operations (MCRP 3-17.71)	Yes	No
	TM 3-34.63	PAVING AND SURFACING OPERATIONS	Yes	Yes

Conditions: The element is directed to provide asphalt support for a construction project. Equipment, personnel and materials are available. The construction directive, plans and specifications are provided. Project site is setup.

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 asphalt support for a construction project no later than the time specified in the construction directive. The element ensures that the specifications are met and material is produced, mixed and placed with maximum efficiency. Test strips are conducted (if time permits) to ensure material is acceptable and meets all specifications. Equipment is maintained to standard.

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 (L/V/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-	
Static (Single Threat)		65-74%	75-79%	No	65-79%	<All	<=79%	P	
		60-64%	60-74%		P-				
		<=59%	<=59%		U				
Day									

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.

Step Number	Task Number	Title	Proponent	Status
1.	71-CO-5100	Conduct Troop Leading Procedures for Companies	71 - Combined Arms (Collective)	Approved
2.	05-PLT-3006	Establish Work Site Security for a General Engineering Mission	05 - Engineers (Collective)	Approved
3.	05-PLT-5121	Set Up Asphalt Plant Equipment	05 - Engineers (Collective)	Approved
4.	43-CO-4575	Conduct Preventive Maintenance Checks and Services	43 - Maintenance (except missile) (Collective)	Approved
4.	05-PLT-5120	Produce Asphaltic Concrete	05 - Engineers (Collective)	Approved
6.	05-PLT-5123	Apply a Prime Coat on a Prepared Surface	05 - Engineers (Collective)	Approved
6.	05-PLT-5122	Apply a Tack Coat on a Prepared Surface	05 - Engineers (Collective)	Approved
7.	05-PLT-5119	Conduct Surface Treatment Operations	05 - Engineers (Collective)	Approved
8.	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
	052-12V-1039	Perform Hand Spraying Operations	052 - Engineer (Individual)	Approved
	052-12V-1068	Perform Bar Spray Operations on an M4 Bituminous Distributor	052 - Engineer (Individual)	Approved
	052-243-1506	Classify a Soil Using the Unified Soil Classification System	052 - Engineer (Individual)	Approved
	052-252-1040	Perform Preventive-Maintenance Checks and Services (PMCS) on an M4 Bituminous Distributor Module	052 - Engineer (Individual)	Approved
	052-252-1046	Perform Preventive-Maintenance Checks and Services (PMCS) on an M087 Hot-Oil Heater	052 - Engineer (Individual)	Approved
	052-252-1050	Line-Fill an M4 Bituminous Distributor Module	052 - Engineer (Individual)	Approved
	052-252-1059	Heat Bitumen in an M4 Bituminous Distributor	052 - Engineer (Individual)	Approved
	052-252-1069	Perform Preventive-Maintenance Checks and Services (PMCS) on an M780T Asphalt Paver	052 - Engineer (Individual)	Approved
	052-252-1071	Perform Operator's Preventive-Maintenance Checks and Services (PMCS) on an M081 Asphalt Mixing Plant	052 - Engineer (Individual)	Approved
	052-252-1073	Perform Operator's Preventive-Maintenance Checks and Services (PMCS) on an M1075 Palletized Load System (PLS)	052 - Engineer (Individual)	Approved
	052-252-2005	Supervise Preventive-Maintenance Checks and Services (PMCS) on an M780T Asphalt Paver	052 - Engineer (Individual)	Approved
	052-252-2007	Supervise Operator's Preventive-Maintenance Checks and Services (PMCS) on a M081 Asphalt Mixing Plant	052 - Engineer (Individual)	Approved
	052-252-2009	Supervise Operator's Preventive-Maintenance Checks and Services (PMCS) on Surface Treatment Equipment	052 - Engineer (Individual)	Approved
	052-252-2010	Supervise Operator's Preventive-Maintenance Checks and Services (PMCS) on Hot-Mix Equipment	052 - Engineer (Individual)	Approved
	052-252-2011	Supervise Preventive-Maintenance Checks and Services (PMCS) on an M5 Concrete Mobile Mixer	052 - Engineer (Individual)	Approved
	052-252-3057	Supervise Operator's Preventive-Maintenance Checks and Services (PMCS) on Concrete Equipment	052 - Engineer (Individual)	Approved
	052-252-3058	Direct the Application of Bituminous Material Lay-Down	052 - Engineer (Individual)	Approved
	052-252-3059	Direct the Manufacture of Asphalt Cutback	052 - Engineer (Individual)	Approved
	052-252-3060	Direct the Erection of an Asphalt Plant	052 - Engineer (Individual)	Approved
	052-252-3061	Direct Asphalt Plant Operations	052 - Engineer (Individual)	Approved
	052-252-3062	Supervise Operator's Preventive-Maintenance Checks and Services (PMCS) on Asphalt Equipment	052 - Engineer (Individual)	Approved
	052-256-3020	Interpret a Construction Print	052 - Engineer (Individual)	Approved
	052-256-4143	Schedule Work in a Construction Project	052 - Engineer (Individual)	Approved
	052-256-4151	Supervise the Construction of a Road	052 - Engineer (Individual)	Approved

Supporting Drill(s): None

Supported AUTL/UJTL Task(s):

Task ID	Title
ART 4.1.7.2	Enable Logistics

TADSS

TADSS ID	Title	Product Type	Quantity
No TADSS specified			

Equipment (LIN)

LIN	Nomenclature	Qty
N75124	Paving Machine Bituminous Material: Diesel Driven Crawler Mounted 12 FT	1
D17391	Dump Body Module XM6	1
T81874	Truck: Palletized Loading	1
E05007	Engineer Mission Module-Water Distribution (EMM-WD): Type II	1
S11711	Roller Motorized Steel Wheel: 2 Drum Tandem 10-14 Ton (CCE)	1
U76871	Sweeper Rotary Towed: Gas/Diesel Driven with Adjustable Brush	1
K25215	Heater Hot Oil Trailer Mounted: Electric Powered 2100000BTU Output	1
M57048	Mixing Plant Asphalt: Diesel/Electric Power 100 to 150 Ton	1
S13546	Spreader: Bituminous Module PLS 2500 Gallon: XM4	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. .