

# Training and Evaluation Outline Report

**Status: Approved**

**10 Dec 2015**

**Effective Date: 05 Oct 2016**

**Task Number:** 05-PLT-5122

**Task Title:** Apply a Tack Coat on a Prepared Surface

**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 <a href="http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/atp5_19.pdf">http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/atp5_19.pdf</a>	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 receives a construction directive to apply a tack coat on a prepared surface as part of a road construction or upgrade project. The bituminous material to be used is specified. The higher headquarters (HQ) operation order (OPORD), plans, specifications, and standard operating procedure (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) has 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 applies the tack coat 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%		Yes	>=91%	All	>=90%	<b>T</b>
		75-84%	>=80%		80-90%		80-89%	<b>T-</b>
65-74%		75-79%	65-79%		<b>P</b>			
Static (Single Threat)		60-64%	60-74%	51-64%	<All	<=79%	<b>P-</b>	
		<=59%	<=59%	<=50%			<b>U</b>	
Day				No				

**Remarks:** None

**Notes:** None

**Safety Risk:** Low

**Task Statements**

## **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
6.	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
	052-12N-4001	Manage a Horizontal Construction Project	052 - Engineer (Individual)	Approved
	052-12T-3300	Prepare a Preliminary Construction Site Analysis	052 - Engineer (Individual)	Approved
	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
	052-252-1050	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
	052-256-3020	Interpret a Construction Print	052 - Engineer (Individual)	Approved
	052-256-4143	Schedule Work in a Construction Project	052 - Engineer (Individual)	Approved

**Supporting Drill(s):** None

**Supported AUTL/UJTL Task(s):**

Task ID	Title
ART 4.1.7.2.1	Construct Roads And Highways

**TADSS**

TADSS ID	Title	Product Type	Quantity
No TADSS specified			

**Equipment (LIN)**

LIN	Nomenclature	Qty
E05007	Engineer Mission Module-Water Distribution (EMM-WD): Type II	1
S13546	Spreader: Bituminous Module PLS 2500 Gallon: XM4	1
K25215	Heater Hot Oil Trailer Mounted: Electric Powered 2100000BTU Output	1
L15041	Loader Scoop Type: Heavy Type II Loader	1
G74783	Grader Road Motorized: Diesel Driven Heavy (CCE)	1
U76871	Sweeper Rotary Towed: Gas/Diesel Driven with Adjustable Brush	1
L77215	Loader Skid Steer: Type III	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

**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. .