

# Training and Evaluation Outline Report

Status: Approved

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Task Number: 10-SEC-0229

Task Title: Conduct Petroleum Tank Farm 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 CASCOM, Fort Lee, Virginia 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	Source Information
	AR 200-1	ENVIRONMENTAL PROTECTION AND ENHANCEMENT	Yes	No	
	AR 385-10	The Army Safety Program	Yes	No	
	AR 70-12	FUELS AND LUBRICANTS STANDARDIZATION POLICY FOR EQUIPMENT DESIGN, OPERATION, AND LOGISTICS SUPPORT	Yes	No	
	AR 710-2	SUPPLY POLICY BELOW THE NATIONAL LEVEL	Yes	No	
	ATP 3-34.5	Environmental Considerations	Yes	No	<a href="http://www.army.mil/usapa/doctrine/Active_FM.html">http://www.army.mil/usapa/doctrine/Active_FM.html</a>
	ATP 4-43	Petroleum Supply Operations	Yes	Yes	
	ATP 5-19	RISK MANAGEMENT, with change 1 dated 8 Sep 2014	Yes	No	<a href="http://www.army.mil/usapa/doctrine/Active_FM.html">http://www.army.mil/usapa/doctrine/Active_FM.html</a>
	FM 4-40 (Change 001, May 08, 2014)	QUARTERMASTER OPERATIONS <a href="http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/fm4_40.pdf">http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/fm4_40.pdf</a>	Yes	No	
	PAM 710-2-1	USING UNIT SUPPLY SYSTEM (MANUAL PROCEDURES)	Yes	No	

**Conditions:** The Petroleum Tank Farm Section has received an operations order (OPORD) from higher headquarters (HQ) to provide personnel to operate fixed bulk petroleum terminals consisting of welded steel tanks, bolted steel tanks, underground tanks, or any combination of above. The section operations are established in support of a higher HQ operational mission. The section has primary access to main supply routes, external logistical support, and it is accessible to all supported and supporting customers/units. Continuous digital and analog communications have been established and maintained. All Army, joint, and host nation applicable regulations, approved internal and external tactical standard operating procedures (TSOP), technical manuals (TMs), and field manuals (FMs) are on-hand as reference material. The section personnel have been provided guidance on rules of engagement for this mission. Threat capabilities include opposing forces which have the ability to gather information, interact with hostile force sympathizers, coordinate suicide bombings, set up improvised explosive devices, coordinate air support, and execute reinforced platoon/squad operations in a chemical, biological, radiological, and nuclear (CBRN) environment. Mission, enemy, terrain and weather, troops and support available-time available and civil considerations (METT-TC) identified constraints must be considered. The section is not likely to be attacked with hostile enemy fire or chemical agents. This task will be performed under either/or a combination of a static, dynamic, complex, single, or hybrid operational environment as outlined in the training evaluation matrix. All authorized equipment is on hand and operational. All assigned and/or attached personnel are available to conduct all day and night operations. Specified time constraints are identified in the operations order. The section has adequate time to prepare. Unit leaders are present in the area of operations. Some iterations of this task should be performed in MOPP 4.

**Standards:** The Petroleum Tank Farm Section provides support to operate fixed bulk petroleum terminals with the use of all available equipment and personnel within the specified time constraints in the mission OPORD and in accordance with (IAW) the approved Army standards identified in the Task Evaluation Criteria Matrix and in the collective task performance steps which are included in this task below, commanders guidance, applicable internal and external TSOPs, and approved Army regulations.

**LEADER STATEMENT:** For the purpose of this task, an Army leader is defined as a Soldier who is in a senior officer, warrant officer, and/or noncommissioned officer (NCO) position designated by grade, paragraph, and title on the units Table of Organization and Equipment (TOE). Leaders are not only defined as officers, warrant officers, noncommissioned officers, and Army civilians in leadership positions but also include individuals who

are Subject Matter Experts (SME) which possess the requisite knowledge and skill set to perform a particular task (For example, conduct an operation, provide logistics, or operate specific technical equipment, etc.) at the tactical through strategic level as the situation and/or mission(s) dictates. Leaders may also be personnel assigned to the unit and designated as a leader by the unit commander.

**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
SQD & PLT									
Dynamic (Single Threat)	Night	>=85%	>=80%	Yes	>=91%	All	>=90%	<b>T</b>	<b>T</b>
		75-84%			80-90%		<b>T-</b>	<b>T-</b>	
Static (Single Threat)	Day	65-74%	75-79%	No	65-79%	<All	80-89%	<b>P</b>	<b>P</b>
		60-64%	60-74%		51-64%		<b>P-</b>	<b>P-</b>	
		<=59%	<=59%		<=50%		<b>U</b>	<b>U</b>	

Commander(s) or Unit Key Leader(s) will determine if training will be conducted under live, virtual, or constructive training environmental conditions using corresponding event types (for example, STT, STX, FTX, etc.) in order to facilitate the Crawl, Walk, Run methodology of training progression to support Unit Training Management (UTM) and recommended Combined Arms Training Strategy (CATS). All external evaluations (EXEVAL's) must be conducted in a live environment.

**Remarks:**

Task steps and performance measures are arranged in a logical order and are not intended to be interpreted as a "required order" for performance. These task steps and/or performance measures of collective task may not always be applicable to every unit. Prior to evaluation, coordination should be made between the evaluator, the unit itself, and the evaluated units' higher headquarters (if required) to determine the task step(s) and/or performance measure(s) that may be omitted and/or must be performed. Training begins with the execution of pre-combat checks and inspections. Training ends when designated training objectives for the particular training events or exercises are performed to Army standard. Unit leadership should conduct an After Action Report (AAR) to determine future training requirements for the unit.

Task Evaluation Criteria Matrix Operational Environment (OE) Definitions:

Static—a static training environment has aspects of operational variables needed to stimulate mission variables that are fixed throughout the unit's execution of the task.

Dynamic—a dynamic training environment has operational variables and threat Tactics, Techniques, and Procedures (TTP) for assigned countertasks that change in response to the execution of friendly force tasks.

Complex—a complex training environment requires a minimum of four—terrain, time, military (threat), and social (population)—or more operational variables; brigade and higher units require all eight operational variables to be replicated in varying degrees based on the task being trained.

Single threat—a single threat in a training environment is a conventional force, irregular force, criminal element, or terrorist force.

Hybrid threat—a hybrid threat in a training environment uses diverse and dynamic combination of conventional forces, irregular forces, terrorist forces, and criminal elements unified to achieve mutually benefitting effects.

To obtain a T or T- this task must be conducted in a dynamic and complex environment with 4 plus OE variables and a hybrid threat at night with 75% or more leaders present, greater than 80% of Soldiers present, receive a "GO" on 80% or more of the performance measures, ALL of the critical performance measures and at least 80% "GO" on the leader performance measures. Must be conducted during an external evaluation.

Task steps and measures were developed using the Plan, Prepare, Execute, and Assess (PPEA) construct to reinforce the operations process and is implied throughout the T&EO as applicable.

**Notes:** REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS: You can help improve this collective task. If you find any errors, or if you would like to recommend any improvements to the procedures in this collective task, please let us know. The preferred method is to submit a DA Form 2028 (Recommended Changes to Publications and Blank Forms) with your recommended changes via email to [usarmy.lee.tradoc.mbx.cascom-g3-collective@mail.mil](mailto:usarmy.lee.tradoc.mbx.cascom-g3-collective@mail.mil). Your recommended changes will be reviewed, validated to ensure approved Army or joint doctrine supports your recommendation(s), implemented as applicable, and a reply will be furnished to you.

**Safety Risk:** Low

<b>Task Statements</b>
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**Cue:** The unit receives requests for bulk petroleum support from supported units.

## DANGER

Ensure fire extinguishers must be properly inspected and available for all operations. Soldiers must constantly be alert for and avoid situations that may result in injury or death. At the training site, leaders must establish training safety overview procedures prior to conducting operations. Failure to do so, may result in personal injury, equipment damage, loss of life, or jeopardize unit mission.

## WARNING

Ensure to post NO SMOKING signs 50 feet from the refueling area to warn personnel that they cannot bring lighted smoking materials, lighters, or matches into the designated area. Soldiers must be alert to human error and know the capabilities and limitations of the equipment and vehicles they use. Following the proper safety procedures preserves troop strength by preventing personnel losses through accidents.



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:** Some iterations of this task should be performed in MOPP4. At MOPP4, performance degradation factors increases planning completion times. Ensure to comply with commander's guidance and unit TSOP when conducting operations in MOPP gear.

Chemical protective clothing ensemble and field protective mask restrict movement and activities. Wear MOPP gear only when threat forces have used CBRN weapons or are likely to do so. MOPP gear should be worn during CBRN training exercises. 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 in accordance with chemical, biological, radiological, and nuclear (CBRN) regulations.

**NVG:** Never

**NVG Statement:** Night vision goggles are not required to conduct this task. However, they may be required when conducting sustainment unit operations, during movement, or Soldier duties as assigned.

**Prerequisite Collective Task(s):**

Step Number	Task Number	Title	Proponent	Status
	10-CO-0012	Establish Petroleum Pipeline and Terminal Operating Operations	10 - Quartermaster (Collective)	Approved
	10-CO-1011	Establish Petroleum Support Company Operations	10 - Quartermaster (Collective)	Approved
	10-SEC-0205	Establish Petroleum Tank Farm Tactical Petroleum Terminal	10 - Quartermaster (Collective)	Approved

**Supporting Collective Task(s):**

Step Number	Task Number	Title	Proponent	Status
	10-CO-0209	Direct Petroleum Pipeline and Terminal Operating Operations	10 - Quartermaster (Collective)	Approved
	10-SEC-0220	Conduct Bulk Petroleum Storage Operations	10 - Quartermaster (Collective)	Approved
	10-SEC-1014	Conduct Petroleum Operations Section Functions	10 - Quartermaster (Collective)	Approved
	43-CO-4575	Conduct Preventive Maintenance Checks and Services	43 - Maintenance (except missile) (Collective)	Approved
	63-CO-4017	Maintain Communications	63 - Multifunctional Logistics (Collective)	Approved
	63-CO-4040	Provide Communications	63 - Multifunctional Logistics (Collective)	Approved
	63-CO-4306	Employ Physical Security Measures	63 - Multifunctional Logistics (Collective)	Approved
	71-CO-5145	Conduct Risk Management	71 - Mission Command (Collective)	Approved

**OPFOR Task(s):** None

**Supporting Individual Task(s):**

Step Number	Task Number	Title	Proponent	Status
	101-92F-1160	React to Petroleum Products Health / Safety Hazards	101 - Quartermaster (Individual)	Approved
	101-92F-1408	Account for Petroleum Products	101 - Quartermaster (Individual)	Approved
	101-92F-2125	Supervise Accountability of Petroleum Products	101 - Quartermaster (Individual)	Approved
	101-92F-3125	Direct Accountability of Petroleum Products	101 - Quartermaster (Individual)	Approved
	101-92F-3157	Prepare Monthly Bulk Petroleum Forecasting Requirements	101 - Quartermaster (Individual)	Approved
	101-92F-3304	Direct Petroleum Operations using Fuel System Supply Point (FSSP)	101 - Quartermaster (Individual)	Approved
	101-92F-3308	Direct Quality Surveillance of Petroleum Products	101 - Quartermaster (Individual)	Approved
	101-92F-4320	Manage Accountability of Petroleum Products	101 - Quartermaster (Individual)	Approved
	101-92F-9003	Plan Petroleum Operations	101 - Quartermaster (Individual)	Approved
	101-92F-9004	Direct Petroleum Operations	101 - Quartermaster (Individual)	Approved
	101-92F-9007	Supervise Petroleum QA/QS	101 - Quartermaster (Individual)	Approved

**Supporting Drill(s):** None

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

Task ID	Title
ART 4.1.3.3	Provide Petroleum, Oils, and Lubricants (Class III)

**TADSS**

TADSS ID	Title	Product Type	Quantity
No TADSS specified			

**Equipment (LIN)**

LIN	Nomenclature	Qty
No equipment specified		

**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.

It is the responsibility of all Soldiers and Department of the Army civilians to protect the environment from damage. Army personnel must take care of the environment; that is, practice environmental stewardship. All operations conducted on Army installations will comply with federal, state, local and host-nation environmental requirements and Army regulations. Army personnel will sustain compliance at all sites in the US and abroad, establishing good relationships with communities and regulators.

Environmental risk management consists of the following steps:

- a. **Identify Hazards.** Identify potential sources for environmental degradation during analysis of METT-TC factors. This requires identification of environmental hazards. An environmental hazard is a condition with the potential for polluting air, soil, or water and or destroying cultural and historical artifacts.
- b. **Assess the Hazard.** Analyze potential severity of environmental degradation using the Environmental Risk Assessment. Severity of environmental degradation is considered when determining the potential effect an operation will have on the environment. The risk impact value is defined as an indicator of the severity of environmental degradation. Quantify the risk to the environment resulting from the operation as extremely high, medium, or low, using the environmental risk assessment matrixes.
- c. **Make Environmental Risk Decisions.** Make decisions and develop measures to reduce high environmental risks.
- d. **Brief Chain of Command.** Brief chain of command (to include installation environmental office, if applicable), on proposed plans and pertinent high-risk environmental matrixes. Risk decisions are made at a level of command that corresponds to the degree of risk.

**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.

Leaders must verify the structural soundness of all training and evaluation plans from a safety viewpoint. Leaders must conduct training at levels consistent with the abilities of the Soldiers being trained. They must instill an awareness of individual safety in all subordinate leaders and Soldiers. Soldiers must constantly be alert for and avoid situations that may result in injury or death.

Be aware of the following:

- a. At the training site, leaders must establish training safety overview procedures. Safety procedures should emphasize the adherence to standards, consideration of environmental factors (for example, wet bulb), risk assessment, and factors contributing to and aiding in the prevention of accidents. Responsible individuals must know how to balance the risks against the training requirements and monitor conditions for safety and health hazards (to eliminate or control them). Leaders must ensure the welfare of their Soldiers in all situations.
- b. Leaders must establish a buddy system for safety measures. Soldiers should maintain a safety watch on each other, with emphasis on individual safety training, and first aid responsibilities. All unsafe conditions and unsafe acts must be recognized and reported. Soldiers must be alert to human error and know the capabilities and limitations of the equipment and vehicles they use. Following the proper safety procedures preserves troop strength by preventing personnel losses through accidents.