Training and Evaluation Outline Report

Status: Approved 17 Sep 2015 Effective Date: 02 Dec 2021

Task Number: 10-CO-0235

Task Title: Conduct Company Petroleum Quality Surveillance Operations

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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 385-10	The Army Safety Program	Yes	No	
	AR 700-132 (Revision)	JOINT OIL ANALYSIS PROGRAM	Yes	No	
	ATP 3-34.5	Environmental Considerations	Yes	No	http://www.army.mil/usapa/d octrine/Active_FM.html
	ATP 4-43	Petroleum Supply Operations	Yes	No	
	TM 4-43.31 (Revision, March 25, 2015)	Petroleum Laboratory Testing and Operations	Yes	Yes	

Conditions: Petroleum product samples are being drawn from petroleum tank vehicles, aircraft, and the units Fuel System Supply Point (FSSP). The laboratory performs quality surveillance, specification and testing of petroleum products. The unit has received an operations order (OPORD) from higher headquarters (HQ) to maintain the petroleum quality surveillance and safety program. Unit operations are established in support of a higher HQ operational mission. Supported units are located in the area of responsibility and have primary access to main supply routes and external logistical support. Operations are accessible to all supported and supporting customers/units and higher headquarters. Continuous digital and analog communications have been established. All applicable regulations, tactical standard operating procedures (TSOP), technical manuals (TMs), and field manuals (FMs), quality surveillance directives are on-hand as reference material. The unit elements 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 (IEDs), 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 unit is not likely to be attacked with hostile enemy fire or chemical agents. This task will be performed under all environmental conditions. All authorized petroleum surveillance and laboratory equipment is on hand and operational. All assigned personnel are available to conduct petroleum quality surveillance during 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

Standards: The unit performs quality surveillance, specification, and testing of petroleum products 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 which is included in this task below, commander's guidance, applicable internal and external TSOP's, and approved Army regulations.

LEADER STATEMENT: An Army leader is anyone who by virtue of assumed role or assigned responsibility inspires and influences people to accomplish organizational goals. Leadership is not limited to or synonymous with an assigned duty, position, or given rank as it also manifests itself in both informal and collective forms. Informal leadership provides knowledge, experience, and technical expertise while collective leadership results through the combined effects and synergies of leaders at different levels and experience collaborating to achieve a common purpose. Informal and collective leadership can include positions with an expanded scope of responsibility, significance and operational / mission implications. Therefore, for the purpose of training this task, Leaders are not only defined as officers, warrant officers, noncommissioned officers, and Army civilians but also include individuals who are Subject Matter Experts (SME) which possess the requisite knowledge and skill set to perform a particular task (i.e., conduct an operation, provide logistics, or operate specific equipment, etc.) at the tactical through strategic level as the situation and/or mission dictates.

Live Fire: No

Objective Task Evaluation Criteria Matrix:

Plan	an	d Prepare		Ex	ec	ute			Ass	ess	
Operation Environme CO & BN	al ent	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	
Dynamic and Complex (4+ OE Variables	Night		>=75%	>=80%	Yes	>=80%	All	>=85%	T	т	
Variables and Hybrid Threat)	ght	IAW	>=73%	>=80%	30	>=00%		>=85%	T-	т-	
Dynamic (Single Threat)		IAW unit CATS statement	60-74%	60-79%		65-	65-	65- 79%	75-	Ρ	Р
Threat)	Day	nt.			No	79%	<all< td=""><td>84%</td><td>P-</td><td>Р-</td></all<>	84%	P-	Р-	
Static (Single Threat)			<=59%	<=59% <=64% <=74	<=74%	U	U				

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 Definitions:

Static: Aspects of operational variables (PMESII-PT) needed to stimulate mission variables (METT-TC) are fixed throughout the unit's execution of the task.

Dynamic: Operational variables and Threat TTPs for assigned counter- tasks change in response to the execution of BLUFOR's task.

Complex: 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 (PMESII-PT) to be replicated in varying degrees based on the task being trained.

Single Threat: Regular, irregular, criminal, or terrorist.

Hybrid Threat: The diverse and dynamic combination of regular forces, irregular forces, terrorist forces, and/or 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. 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

Task Statements

Cue: The unit has received an OPORD from HQ to maintain the petroleum quality surveillance and safety program.

DANGER

Fuels and solvents are flammable and may cause irritation to the eyes or skin. Wear protective goggles, gloves, and an apron; avoid contact with skin, eyes, and clothing. Use in well ventilated areas and keep away from heat or flame. Follow all Safety Data Sheet, Hazardous Materials Identification System (HMIS), ISO 9000-2, Lab Safety Operating Procedures, and related instructions. Failure to comply may result in personnel injury or death.

WARNING

Safe and efficient aviation fuel laboratory operations depend on the observance of well-established safety practices and a thorough knowledge of testing procedures. The testing procedures often involve using equipment and materials that are potentially hazardous. Injury to personnel and damage to equipment by fire, chemicals, dangerous pressures and vacuums, or misuse of equipment can be avoided by alert and responsible laboratory technicians. Observe all warnings, safety precautions, and safety regulations in this manual. Strict observance of established safety, care, and handling procedures will allow laboratory personnel to perform their duties in a safe and hazard-free environment.

CAUTION

DO NOT connect any cables or apply power before properly grounding the Petroleum Quality Analysis System – Enhanced (PQAS-E). Lack of equipment grounding or improper grounding can cause severe injury or death to personnel, or damage to equipment. To prevent possible shock, ground strap must be connected to ground rod before connecting strap to shelter. Ground strap should not obstruct the entrance door, interfere with shelter cables, or create a safety hazard. Ground the PQAS-E in accordance with current doctrine for Grounding of Systems.

Performance Steps and Measures

NOTE: Assess task proficiency using the task evaluation criteria matrix.

NOTE: Asterisks (*) indicate leader steps; plus signs (+) indicate critical steps.

STEP/MEASURE	GO	NO-GO	N/A
+ 1. Commander, Petroleum Managers, and staff provide mission command on unit quality surveillance operations.			
a. Provide day to day bulk petroleum quality surveillance to supported units.			
b. Approve quality surveillance internal and external standard operating procedures.			
c. Provide guidance on petroleum quality surveillance and safety programs.			
d. Verify the adequacy of quality surveillance measures taken by fuel handlers.			
e. Direct petroleum surveillance personnel to be properly certified and trained.			
f. Maintain a laboratory for quality surveillance.			
g. Provide higher headquarters a report of laboratory personnel, equipment and operational status.			
+ 2. Operations Section staff coordinates quality surveillance program requirements.			
a. Inform commander on internal quality surveillance operations, personnel, and equipment status.			
b. Coordinate with higher headquarters for external fuel testing outside of unit capability.			
c. Communicate with higher headquarters for mission support.			
d. Ensure petroleum surveillance personnel are properly certified and trained.			
+ 3. Petroleum Systems Technician(s) provides technical assistance for the quality surveillance			
program.			
a. Ensure petroleum samples drawn for testing are in accordance with latest version approved doctrine and military standard directives.			
 Inform higher headquarters of quality of fuels received, stored and issued alerts the chain of command to a variety of problems. 			
c. Assist the bulk fuels accountable officer with logistics status reporting as it relates to the quality of bulk petroleum stocks.			
d. Inform the higher HQ Support Operations staff when fuel samples are required to be sent to an external petroleum laboratory for testing.			
e. Assist supported units with quality surveillance testing as necessary.			
f. Provide technical assistance to the commander and higher headquarters Support Operations staff on petroleum matters.			
g. Provide technical assistance to supporting units for handling, storage, sampling and identification through quality surveillance testing.			
h. Monitor petroleum quality surveillance procedures.			
+ 4. Terminal Operating Platoon Headquarters, Fuel and Water Platoon, and the Petroleum Support Platoon leader(s) manage platoon quality surveillance program.			
a. Provide direct support quality surveillance and testing capabilities to the brigade combat team(s) and on an area basis.			
b. Provide daily reports of quality surveillance requirements.			
c. Review lab analysis reports.			
d. Review gains and losses of petroleum products.			
e. Ensure petroleum product stocks are rotated as required.			
f. Conduct periodic inspections on quality surveillance equipment systems and storage tanks.			
g. Implement unit tactical standard operating procedures.			
h. Review unit sample log and test report and forward to higher headquarters.			
+ 5. Petroleum Manager(s) direct quality surveillance operations.			
a. Ensure petroleum products are properly circulated.			
b. Validate that fuel handling systems are inspected.			
c. Ensure that filter separator elements are inspected and replaced.			
d. Ensure that quality surveillance is referenced in tactical standard operating procedures.			
e. Ensure samples are properly submitted for testing.			
f. Confirm that sample log books are maintained by the laboratory.			
g. Certify that quality surveillance reports are review and on-hand.			
h. Validate that petroleum product disposition recommendations are in accordance with federal, international, and military standards and guidance.			
i. Monitor laboratory tests of petroleum products for quality surveillance compliance with test procedures.			
j. Supervise preparation of test reports.			
k. Forward test reports to company headquarters.			
I. Enforce environmental stewardship protection program procedures to minimize exposure to chemicals.			
m. Enforce safety procedures are in accordance with current doctrine and publications.			

+ 6. Petroleum Laboratory Specialist(s) conduct petroleum laboratory administrative functions.		
a. Document receipt of petroleum product samples.		
b. Maintain adequate expendable supplies for laboratory testing operations.		
c. Employ internal and external TSOP for petroleum sample testing.		
d. Verify test results through comparison to the specifications and deterioration limits for the sample product.		
e. Recommend disposition of petroleum products that are contaminated or that affect the operation of military equipment.		
f. Recommend disposition of captured petroleum stocks, incorrectly marked products, and products whose markings have been destroyed.		
g. Report test results according to unit tactical standard operating procedures.		
h. Prepare consolidated test reports for higher headquarters.		
i. Maintain quality surveillance functional files.		
j. Ensure adequate security includes specific and appropriate countermeasures against tampering, adulteration, substitution, contamination, and other actions that could make the fuel unusable or potentially damaging to the end user.		
k. Perform before, during, and after preventive maintenance checks and services on laboratory		
equipment IAW TM. I. Employ spill planning procedures are followed to reduce environmental and to minimize exposure		
to chemicals.		
m. Maintain safety data sheets for each fuel, chemical, or hazardous material on hand.		
n. Employ safety procedures in accordance with TSOP and publications.		
 Ensure quality surveillance equipment is calibrated. 		
+ 7. Petroleum Quality Analysis Team performs laboratory quality analysis of tested petroleum products.		
a. Provide technical assistance to higher headquarters.		
b. Perform quality evaluation of petroleum products and petroleum containers received from supported units.		
c. Provide joint and host nation quality surveillance support as required.		
d. Provide petroleum quality surveillance testing on (B-Level) testing on ground and aviation fuels.		
e. Perform limited B-level testing on packaged petroleum products using data to make recommendations for proper use, reclamation, and disposal of petroleum products in accordance with military standard on kerosene, (JP5, JP-8, JET A-1, and diesel based military mobility fuels.		
f. Ensure petroleum products meet specified physical and chemical properties.		
g. Ensure adequate security includes specific and appropriate countermeasures against tampering, adulteration, substitution, contamination, and other actions that could make the fuel unusable or potentially damaging to the end user.		
h. Provide higher headquarters petroleum quality surveillance testing data as required.		
i. Maintain safety data sheets for each fuel, chemical, or hazardous material on hand.		
j. Perform unit and preventive maintenance on laboratory equipment.		
+ 8. Quartermaster Base Petroleum Laboratory Team or Detachment provides quality analysis of petroleum products.		
a. Provide theater quality surveillance testing as required.		
b. Perform quality surveillance testing on kerosene based diesel military mobility fuel for properties associated with storage (B-3 level) and acceptance (C-level) in accordance with current military standard doctrine.		
c. Analyze petroleum products received from supporting units.		
d. Provide area petroleum laboratory support as directed by higher headquarters.		
e. Perform complete satisfaction and procurement acceptance testing of petroleum products.		
f. Ensure adequate security includes specific and appropriate countermeasures against tampering, adulteration, substitution, contamination, and other actions that could make the fuel unusable or		
potentially damaging to the end user.		
g. Provide technical assistance to higher headquarters.		
h. Ensure petroleum products meet specified physical and chemical properties.		
i. Provide higher headquarters petroleum quality surveillance testing data as required.		
j. Perform before, during, and after preventive maintenance checks and services on laboratory equipment IAW TM.		
k. Ensure quality surveillance equipment is calibrated.		
+ 9. Petroleum Managers and Laboratory personnel implement laboratory safety procedures.		
a. Conduct general laboratory safety requirements.		
b. Distribute safety directives to subordinate units as appropriate.		
c. Ensure that personnel working with hazardous chemicals receive health and safety training.		
d. Ensure that laboratory personnel receive first aid training in accordance with medical guidelines and standing operating procedures.		
e. Ensure that personnel are provided and have received training in the use of protective clothing and equipment.		
f. Perform daily inspections of laboratory operations to ensure compliance health and safety procedures.	 	

g. Good laboratory housekeeping serves to minimize exposure to petroleum testing hazards.		
h. Use personal protective equipment during day-to-day testing tasks.		
i. Maintain safety data sheets for each fuel, chemical, or hazardous material on hand.		
j. If a mercury spill occurs, make sure there is adequate ventilation. Do not vacuum or sweep the area as this will disperse mercury throughout the laboratory.		
 k. Place toxic, flammable or corrosive chemicals in unbreakable containers for moving between rooms or through the laboratory corridors. 		
 Ensure adequate security includes specific and appropriate countermeasures against tampering, adulteration, substitution, contamination, and other actions that could make the fuel unusable or potentially damaging to the end user and/or government equipment. 		
m. Identify safety and environmental considerations for operator calibration procedures.		
+ 10. Petroleum laboratory personnel perform preventative maintenance checks and services (PMCS) on organic laboratory equipment.		
a. Conduct PMCS prior to PQAS-E operation.		
 b. Check that mounted accessories are secure and in place before you begin to operate your PQAS-E. 		
c. Inspect for corrosion and leaks.		
d. Keep interior and exterior clean.		
e. Check for obvious loose or missing bolts, nuts, and screws that are bent, defective, or are in a		
broken condition.		
f. Identify loose or chipped paint, rust, or gaps where parts are welded together.		
g. Inspect electrical wires and connections for obvious damage.		
h. Validate that hoses and fluid lines are not damaged.		
i. Perform PMCS while PQAS-E is in operation.		
j. Conduct PMCS after PQAS-E operations have been shut down.		
k. Refer to equipment TM to troubleshoot any problems encountered during PMCS.		
 Document faults that could not be repaired on the equipment inspection and maintenance worksheet and report it to supervisors, higher headquarters, and/or supporting maintenance unit for repair. 		
m. Ensure laboratory equipment is calibrated as required.		
+* 11. Leaders manage administrative functions as appropriate, directed, or required.		
a. Conduct troop leading procedures.		
b. Manage composite risk management assessments.		
c. Provide logistics status reports to higher HQ IAW TSOP.		
d. Maintain communications with higher HQ IAW TSOP.		
e. Monitor before, during, and after preventive maintenance checks and services (PMCS) on organic equipment.		
f. Employ Physical Security Measures.		
g. Enforce operations security (OPSEC) procedures at all times.		
h. Enforce safety regulations and established unit's internal and external TSOP's.		
i. Ensure that all Army sites and operations attain and sustain 100 percent compliance with environmental laws and regulations in a climate of changing requirements to prevent a notice of violation or a fine for not complying with following host nation, local, state, federal, higher headquarters environmental directives and policies.		
j. Direct destruction of unit equipment to prevent enemy use as situations dictate.		
-	 	

Task Performance Summary Block									
Training U	nit	ITERATION							
			1		2	:	3	4	
Date of Training pe	r Iteration:								
Day or Night Tr	aining:	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: Never

MOPP 4 Statement: This task is not intended to be performed in MOPP 4. However, if necessary during an unexpected interim chemical, biological, radiological, and nuclear (CBRN) situation, ensure personal protective measures have been taken before proceeding with any measure to protect or decontaminate equipment. Failure to observe this precaution may result in serious illness, injury, or death to personnel by CBRN agents. Perform immediate operational or thorough decontamination procedures in accordance with applicable equipment TM's, CBRN doctrine, and unit TSOP as the mission, resources, and tactical situation permits. The CBRN Specialist should test unit equipment for levels of contamination after the all clear signal has been given and prior to resuming mission operations.

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 moment, or Soldier duties as assigned.

Prerequisite Collective Task(s): None

Supporting Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
	10-CO-0003	Prepare Petroleum Laboratory for Certification	10 - Quartermaster (Collective)	Approved
	10-PLT-0236	Conduct Composite Supply Company Petroleum Platoon Headquarters Operations	10 - Quartermaster (Collective)	Approved
	10-SEC-0220	Conduct Bulk Petroleum Storage Operations	10 - Quartermaster (Collective)	Approved
	10-SEC-0237	Conduct Bulk Petroleum Distribution Section Operations	10 - Quartermaster (Collective)	Approved
	10-TM-0003	Conduct Petroleum Laboratory Operations	10 - Quartermaster (Collective)	Approved
	55-CO-0041	Transport Bulk Petroleum	55 - Transportation (Collective)	Approved
	71-CO-5100	Conduct Troop Leading Procedures	71 - Mission Command (Collective)	Approved

OPFOR Task(s): None

Supporting Individual Task(s):

Step Number	Task Number	Title	Proponent	Status
1.	101-23A-6001	Implement Bulk Petroleum Quality Surveillance Programs (Brigade and Below)	101 - Quartermaster (Individual)	Approved
2.	101-92L-4410	Plan Quality Surveillance Operations for Petroleum Facilities.	101 - Quartermaster (Individual)	Approved
6.	101-92L-2314	Review Petroleum Laboratory Test Reports.	101 - Quartermaster (Individual)	Approved
6.	101-92L-4406	Validate Laboratory Operations.	101 - Quartermaster (Individual)	Approved
6.	101-23A-6003	Manage Petroleum Laboratory Operations	101 - Quartermaster (Individual)	Approved
6.	101-92L-1425	Prepare Petroleum Laboratory Analysis Reports	101 - Quartermaster (Individual)	Approved
7.	101-92L-3407	Perform Quality Surveillance on Petroleum Vessels and Vehicles	101 - Quartermaster (Individual)	Approved
7.	101-92L-3406	Perform Quality Surveillance at Petroleum Facilities	101 - Quartermaster (Individual)	Approved
8.	101-92L-3406	Perform Quality Surveillance at Petroleum Facilities	101 - Quartermaster (Individual)	Approved
8.	101-92L-3407	Perform Quality Surveillance on Petroleum Vessels and Vehicles	101 - Quartermaster (Individual)	Approved

Supporting Drill(s): None

Supported AUTL/UJTL Task(s):

Task ID	Title
ART 4.1.3.3.3	Provide Petroleum Quality Assurance and Quality Surveillance

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 protection is the responsibility of all unit leaders to decrease, and if possible, eliminate, damage to the environment when conducting training. Environmental risk management parallels safety risk management, and is based on the same philosophy as safety risk management. 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.

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.

Leaders must establish a buddy system for safety. 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.