

DELIBERATE RISK ASSESSMENT WORKSHEET

1. MISSION/TASK DESCRIPTION

Horizontal Engineer Construction Project

2. DATE (DD/MM/YYYY)
3. PREPARED BY
a. Name (Last, First Middle Initial)
b. Rank/Grade
c. Duty Title/Position

SGT/ E-5

Heavy Equipment Operator Engineer

d. Unit
e. Work Email
f. Telephone (DSN/Commercial (Include Area Code))
g. UIC/CIN (as required)
h. Training Support/Lesson Plan or OPORD (as required)
i. Signature of Preparer

See Work Plan as required

Five steps of Risk Management: (1) Identify the hazards (2) Assess the hazards (3) Develop controls & make decisions
 (4) Implement controls (5) Supervise and evaluate (Step numbers not equal to numbered items on form)

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
<input type="checkbox"/> + <input type="checkbox"/> -	Operate Heavy Equipment / PMCS & Earth Moving Operations	Noise	M	All Soldiers to wear proper PPE. Unified hand and arm signal prior to operations.	How: Physically check for earplugs. Who: Site Supervisor/All Soldiers	L
	<input type="checkbox"/> + <input type="checkbox"/> -	Fall from equipment	M	All Soldiers will maintain three points of contact on engineering equipment at all times	How: Conduct safety brief prior to work	L
					Who: Site Supervisor/ All Soldiers	
<input type="checkbox"/> + <input type="checkbox"/> -		Rollover, Loaders, Dozers, Graders	M	All equipment operators to have designated ground guides when moving equipment. Operators will be cleared through NCOIC prior to operating the equipment.	How: Ground guide, PPE, Hand /Arm Sig.	L
					Who: Site Supervisor/ All Soldiers	

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<input type="checkbox"/> + <input type="checkbox"/> - <input type="checkbox"/> + <input type="checkbox"/> - <input type="checkbox"/> + <input type="checkbox"/> - <input type="checkbox"/> + <input type="checkbox"/> -	Operate Heavy Equipment / PMCS & Earth Moving Operations, Cont.	Crush / Impingement	M	Operator training / awareness. Use of ground guides during all equipment operation. Wear safety vests at all times on job site. Appendages will be 12 inches away from all moving parts.	How: Strict enforcement of Ground Guides, PPE, Hand/Arm Sig. Who: Site Supervisor/ Site Safety NCO, All Soldiers	L	
		Concussion / TBI	M	Everyone on job site required to wear a Hard Hats at all times.	How: Strict enforcement of Hard Hat on job site at all times. Who: Site Supervisor/ Site Safety NCO, All Soldiers	L	
		Rollover, Dump Truck, Water Truck, Container Handlers	M	Operator training / awareness. Use of ground guides during all equipment operation. Appropriate vehicle speed and loading.	How: Safety Brief. Predetermined speeds for loaded equipment. QA/ QC vehicle loads. Who: Site Supervisor/ Site Safety NCO, All Soldiers	L	
		Soldier outdoor Training and Movement	Dehydration (Due to wind, sun, and altitude)	M	Ensure availability of water at the job site. All Soldiers to have personal hydration system / canteen. Appendages will be 12 inches away from all moving parts.	How: Pre-op safety brief & Observation Who: Site Supervisor/All Soldiers	L
		Construction Site Operations	Asphyxiation / Gas / Dust	M	Do not work around dust or toxic gases without proper cross-ventilation or outside without proper suppression and masks or aspirators where appropriate.	How: Safety Brief / Physically Check Who: Master Driver/SME/ Safety NCO	L

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<input type="checkbox"/> + <input type="checkbox"/> -	Construction Site Operations, Cont.	Smashing / Crushing / Burns / Cuts & Lacerations	M	All Soldiers to wear gloves while working with hand tools and construction materials.	How: Safety Brief / Physically Check	L
					Who: Site Supervisor / All Soldiers	
<input type="checkbox"/> + <input type="checkbox"/> -	Unit Movement/Motor Vehicle Operations	Vehicle accident from Weekend highway traffic, Drunk/Inattentive drivers, Semi Tractor trailers, Malfunctioning equipment.	M	Operator properly licensed and dispatched. Vehicles PMCS'd prior to operation using -10. A-driver in all vehicles. Seat belts. Observe traffic laws and posted speed limits. Do not operate vehicles while tired. Take necessary breaks and avoid distractions.	How: Safety brief prior to movement.	L
					Who: Section Leader/Safety NCO/All Soldiers	
10. OVERALL RESIDUAL RISK LEVEL (All controls implemented):						
<input type="checkbox"/> EXTREMELY HIGH <input type="checkbox"/> HIGH <input type="checkbox"/> MEDIUM <input checked="" type="checkbox"/> LOW						
11. OVERALL SUPERVISION PLAN AND RECOMMENDED COURSE OF ACTION						
<p>A Subject Matter Expert (SME) of Engineering will be utilized at all times. All personnel entering will receive a safety brief prior to being allowed on the site each day. Safety briefs will be conducted prior to all movements. Safety briefs will include proper wear of PPE, proper mounting and dismounting and hand an arm signal refreshers prior to working on or around heavy equipment. NCOICs will clearing identify job site boundaries and hazards and set conditions for speed limits, increased driver awareness and specifics requirements concerning each piece of equipment. During each individual project, NCOICs identify a plan to assist subordinate Soldiers with the conduct of engineering operations. Once Soldiers are all on-site all Soldiers will provide oversight and enforcement of safety obligations. An Engineer AAR will be conducted at close of the work day, as well as at the close of the project / mission to outline any outstanding safety concerns still needing to be addressed.</p>						
12. APPROVAL OR DISAPPROVAL OF MISSION OR TASK <input type="checkbox"/> Approve <input type="checkbox"/> Disapprove						
a. Name (Last, First, Middle Initial)		b. Rank/Grade	c. Duty Title/Position		d. Signature of Approval Authority	
e. Additional Guidance:						