

# DELIBERATE RISK ASSESSMENT WORKSHEET

<b>1. MISSION/TASK DESCRIPTION</b>  Range Training Area (RTA) - Readiness Fitness Designated Routes for Runners, Bicyclist, Ruck-Marchers	<b>2. DATE (YYYYMMDD)</b>  20190705
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<b>3. PREPARED BY</b>		
<b>a. Name (Last, First Middle Initial)</b>  <div style="background-color: black; width: 150px; height: 20px;"></div>	<b>b. Rank/Grade</b>  GS13	<b>c. Duty Title/Position</b>  Chief of Operations DPTMS
<b>d. Unit</b>  USAG - Fort Knox	<b>e. Work Email</b>  <div style="background-color: black; width: 150px; height: 20px;"></div>	<b>f. Telephone (DSN/Commercial (Include Area Code))</b>  (502) 624-3330 WORK
<b>g. UIC/CIN (as required)</b>  W6CDAA	<b>h. Training Support/Lesson Plan or OPORD (as required)</b>  Policy#TBD June 28, 2019	<b>i. Signature of Preparer</b>  <div style="height: 40px;"></div>

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
<div style="border: 1px solid black; width: 20px; height: 20px; margin: 2px; display: flex; align-items: center; justify-content: center;">+</div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 2px; display: flex; align-items: center; justify-content: center;">-</div>	Range Complex Readiness/Fitness Routes	Severe weather lightning / torrential rains / flooding / low-water crossings	M	All users are required to check local weather during their planning process and the day of their training event. Required weather plan.	<b>How:</b> Verify weather through local weather channel, Fort Knox weather station Range shut down route  <b>Who:</b> -Individual Responsibility -Range control	L
<div style="border: 1px solid black; width: 20px; height: 20px; margin: 2px; display: flex; align-items: center; justify-content: center;">+</div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 2px; display: flex; align-items: center; justify-content: center;">-</div>		Movement of tactical, commercial / construction equipment and vehicles	H	Users will maintain situational awareness of vehicular traffic in the area and use far right side of lane deep turns and curves also maintain the speed limit as posted on route. Each User will assess their individual experience level and determine if they are capable of safe fitness training on the route.	<b>How:</b> Self assessment and route assessment  <b>Who:</b> Individual Responsibility	M
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		Medical emergency involving runners, bicyclist, and ruck-marchers	H	Users will notify organizations for minor incident infraction / and contact DES Emergency Services for medical emergencies.	How: Range Control SOP DES  Who: Individual Responsibility Emergency services Range Control Desk	M
		Hills, blind curves, and intersections in range complex area, have reduced visibility caused by overgrown trees and sharp turns.	H	Users will traverse the route with the flow of traffic and maintain a safe distance from passing vehicles. All users will remain in single file and stay as close to the right of the road without placing oneself in unsafe position.	How: Readiness/fitness route rules and safety enforcement  Who: Individual responsibility	M
		Loose gravel / Sand, uneven lanes in roadway, pot holes, soft shoulders, wet roadways, washouts, and falling rock from from road cut aways.	H	Users will ensure they have the skill set to conduct safe readiness and fitness activities with all associated hazards that are encountered on any roadway.	How: Self Assessment and situational awareness  Who: Individual responsibility	M
		Runners, bicyclist and ruck-marchers proceeding through unauthorized route.  *Danger zone * Personnel Lack Identification	M	Signs will be posted to warn users of the route start and end points. All personnel must have a valid ID card on their person.	How: Range control coordinate with DES, Safety, DPW for appropriate signs and placement  Who: Range Control / DPW / DES / Safety	L

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		Not or improperly-wearing personal protective equipment while running, bicycling, ruck-marching on the installation /in the RTA	M	All bicyclist will wear personal protective equipment such as helmet and brightly colored clothing and front and rear lights capability per KY state laws. All runners will wear bright clothing. All ruck-marchers will wear reflective belt/flashlight with cone cover.	<div>How: Individual / DES enforcement</div> <div>Who: Individual / DES enforcement</div>	L
		Unauthorized entry, possible terrorist, or non-ID card holders access of Range Complex Area or roadways	H	JAG review to cover legality and written recommendation that outlines all applicable rules and regulations which applies to allowing authorized users to conducting readiness and fitness on the range training complex roadways. While using the range complex the following individuals are authorized to periodic survey any individuals doing physical training; military police, Wild life Control and Range Control Officers.	<div>How: JAG will provide written legal recommendations. periodic survey for ID Card.</div> <div>Who: JAG</div>	M
		Range road; military personnel and equipment increased due to multiple exercises high activity in the area.	H	Range Control Manager has the authority to close access for readiness training based on increased risk Personnel and military activities if large volumes of training and or range missions is conducted. Range Control will conduct a periodic review.	<div>How: Range Control Manager will post signs route open/closed at the starting point/endpoint</div> <div>Who: Range Control and Range Control desk via readiness and fitness check-in</div>	M

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		Unable to Contact emergency services due to limited cell phone connectivity.	M	Provide map of designated phone lines near the roadway or nearest Range to ensure injured user can call for emergency. Be aware of locations in which you do not have service.	<div>How: DPW / Range Control tower phone locations</div> <div>Who: Range Control / DPW / NEC / Safety</div>	L
		Bike ride equipment failure: -Flat tire -Damaged rims -Disabled bike	H	Bicycle riders will inspect their equipment prior to riding and ensure they have a recovery plan and ensure the proper repair accessories are attached to bike/ serviceable.	<div>How: Individual responsibility to implement communication plan to be picked up</div> <div>Who: Individual and or group lead</div>	M
		Personnel becomes dehydrated, ill or has a medical condition	M	All personnel will ensure they have water and an emergency action plan in place prior to departing on their route.	<div>How: Individual emergency action plan</div> <div>Who: Individual responsibility</div>	L
		Forest-wildlife in roadways, startling, darting in front or attacking runners, bicyclist, and ruck-marchers	H	Personnel will adhere to safety briefings and awareness of types of animals possible encounter in the roadway and what actions to take. Do not approach any animals, or provoke.	<div>How: Individual responsibility to be situational aware of surroundings</div> <div>Who: Individual responsibility</div>	M

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		Poison Oak, poison ivy and other plants near the roadway	L	Avoid contact with plants and know which plants are hazardous. Safety will provide safety flier for easy identification of hazardous Shrubbery and poisonous plants.	<div>How: Individual responsibility to be situational aware of surroundings. Review Safety Fliers</div> <div>Who: Individual responsibility</div>	L
		*Hunters* Gun and Bow Hunting Season.	EH	Notify hunt control to brief hunters that seasonal readiness is now being conducted in RTA. Brief all Commands and individuals receiving hunt license and personnel conducting readiness/ fitness training. Ruck-marchers, bicyclist, and runners must stay on the paved course route	<div>How: Add to hunters safety briefing</div> <div>Who: Hunt control</div>	H
		Heavy vehicle drivers training and check rides for Student drivers using same route as Ruck-marchers, bicyclist, and runners using readiness/ fitness route	H	Advise unit with student drivers of readiness/ fitness route. and vise versa that of Ruck-marchers, bicyclist, and runners. When passing Speed limit is 10 MPH.	<div>How: DPTMS Operations. Individual responsibility situational awareness of surroundings</div> <div>Who: Drivers Training Instructor. Individual responsibility</div>	M
		Movement (transporting) of ammunition and pyrotechnics to the training range training complex area. Hazardous Cargo Vehicles; -Fuel -Munitions	M	Route used for training that will effect users. Safety and Range Control will periodically assess ammunition route. Personnel Conducting Readiness/Fitness Training Will Be Made Aware of The Hazards Associated With Ammo Route.	<div>How: Individual responsibility to be situational aware of surroundings</div> <div>Who: Ammo transporters Individual responsibility Safety Range Control</div>	L

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		Mounted maneuver training with pyrotechnics (track and wheeled vehicles) Pyrotechnics includes - blank ammunition, smoke grenades, artillery and grenade simulators, CS gas, aerial flares, booby traps, IED simulator, etc	H	Route will be briefed in range safety brief. Range Control will assess heavy use of range roads and make determination to close the route for readiness/fitness activity	<div>How: Brief in range brief</div> <div>Who: Range Control</div>	M
		Driver reduced visibility due Solar Glare. Runners, bicyclist, and ruck-marchers not seen due to driver blinded by the lights or (sun glare).	H	<div>Personnel are highly Encouraged to wear bright colored clothing and reflective belts or material.</div> <div>Due to Solar Glare Runners, bicyclist, and ruck-marchers must have appropriate eye protection for ultraviolet rays.</div>	<div>How: Individual responsibility situational aware of surroundings</div> <div>Who: Individual safety responsibility. Approaching vehicle operators.</div>	M
		Potential exists for unprotected personnel to be exposed to >115db noise levels. Artillery fire produces 115 db peak at 1400m from the gun position (db increases as you get closer to the gun).	EH	Range Control will make assessment for road closures during artillery firing. Users are prohibited from wearing hearing devices will running, bicycling, and ruck-marching.	<div>How: Range will close route if Artillery is firing</div> <div>Who: Range Control</div>	H
		Route incorporates all adjacent training areas and tactical movement is conducted across the Public Traffic Route in several locations at less than 75 feet of firing hazard.	EH	Range Control will make assessment for road closures due to potential fragmentation hazard, and high traffic area	<div>How: Range will close route</div> <div>Who: Range Control</div>	H

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		Ranges being occupied where ammunition Hazard Class Division and Net Explosive Weight is high enough to endanger personnel due to an explosion, fire, ( bicyclist, runner and ruck march) using the adjacent road.	H	Range Control Manager has the authority to close access for readiness training or limit the amount of ammunition being used by the unit training.	How: Range Control Manager will post signs route open/closed at the starting point/endpoint.  Who: Range Control	M

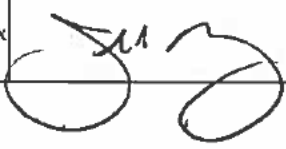
**10. OVERALL RESIDUAL RISK LEVEL (All controls implemented):**

☐ EXTREMELY HIGH
 ☒ HIGH
 ☐ MEDIUM
 ☐ LOW

**11. OVERALL SUPERVISION PLAN AND RECOMMENDED COURSE OF ACTION**

The range training area (RTA) routes have been reviewed by the Installation Safety Office, JAG, Range Control, and DES to provide the Senior Commander with overall risk levels. The legal opinion, and mitigation plans for opening the Range Complex Area to personnel with a valid Identification Card for running, bicycling, and ruck-marching. Once approved by the Senior Commander appropriate signs will be installed based on joint route and roadway assessment by Range Control, DES, Safety, and DPW. Range control will ensure all fire desk operators are aware of procedures and responses for runners, bicyclists, and ruck-marchers regarding designated range complex area route usage. Information regarding the routes will be included in all Range Safety briefings for OIC and RSO training/ Graphic training aides will be provided to all partner organizations for dissemination. Safety and PAO will publish safety bulletins and articles to disseminate the rules and regulations to the public and all partner organizations. If an incident occurs involving a runners, bicyclists, and ruck-marchers a review will be conducted by Range Control, Safety, and DES to determine any mitigation corrections that must be made to the process or RTA. At anytime the Range Control Manager will have the authority to close the Range Complex to all activity until further notices based on an increase risk or operational level.

**12. APPROVAL OR DISAPPROVAL OF MISSION OR TASK** ☐ Approve ☐ Disapprove

a. Name (Last, First, Middle Initial)	b. Rank/Grade	c. Duty Title/Position	d. Signature of Approval Authority
EVANS, JOHN R.	MG/08	Senior Commander Fort Knox	

e. Additional Guidance:

Risk Assessment Matrix		Probability (expected frequency)				
		Frequent: Continuous, regular, or inevitable occurrences	Likely: Several or numerous occurrences	Occasional: Sporadic or intermittent occurrences	Seldom: Infrequent occurrences	Unlikely: Possible occurrences but improbable
Severity (expected consequence)		A	B	C	D	E
Catastrophic: Mission failure, unit readiness eliminated; death, unacceptable loss or damage	I	EH	EH	H	H	M
Critical: Significantly degraded unit readiness or mission capability; severe injury, illness, loss or damage	II	EH	H	H	M	L
Moderate: Somewhat degraded unit readiness or mission capability; minor injury, illness, loss, or damage	III	H	M	M	L	L
Negligible: Little or no impact to unit readiness or mission capability; minimal injury, loss, or damage	IV	M	L	L	L	L
Legend: EH - Extremely High Risk   H - High Risk   M - Medium Risk   L - Low Risk						
13. RISK ASSESSMENT REVIEW (Required when assessment applies to ongoing operations or activities)						
a. Date	b. Last Name	c. Rank/Grade	d. Duty Title/Position	e. Signature of Reviewer		
14. FEEDBACK AND LESSONS LEARNED						
15. ADDITIONAL COMMENTS OR REMARKS						



**Instructions for Completing DD Form 2977, "Deliberate Risk Assessment Worksheet"**

**1. Mission/Task Description:** Briefly describe the overall Mission or Task for which the deliberate risk assessment is being conducted.

**2. Date (DD/MM/YYYY):** Self Explanatory.

**3. Prepared By:** Information provided by the individual conducting the deliberate risk assessment for the operation or training.  
**Legend:** **UIC** = Unit Identification Code; **CIN** = Course ID Number; **OPORD** = operation order; **DSN** = defense switched network; **COMM** = commercial

**4. Sub-task/Sub-Step of Mission/Task:** Briefly describe all subtasks or substeps that warrant risk management.

**5. Hazard:** Specify hazards related to the subtask in block 4.

**6. Initial Risk Level:** Determine probability and severity. Using the risk assessment matrix (page 3), determine level of risk for each hazard specified. probability, severity and associated Risk Level; enter level into column.

**7. Control:** Enter risk mitigation resources/ controls identified to abate or reduce risk relevant to the hazard identified in block 5.

**8. How to Implement / Who Will Implement:** Briefly describe the means of employment for each control (i.e., OPORD, briefing, rehearsal) and the name of the individual unit or office that has primary responsibility for control implementation.

**9. Residual Risk Level:** After controls are implemented, determine resulting probability, severity, and residual risk level.

**10. Overall Risk After Controls are Implemented:** Assign an overall residual risk level. This is equal to or greater than the highest residual risk level (from block 9).

**11. Supervision Plan and Recommended Course of Action:** Completed by preparer. Identify specific tasks and levels of responsibility for supervisory personnel and provide the decision authority with a recommend course of action for approval or disapproval based upon the overall risk assessment.

**12. Approval/Disapproval of Mission/Task:** Risk approval authority approves or disapproves the mission or task based on the overall risk assessment, including controls, residual risk level, and supervision plan.

**13. Risk Assessment Review:** Should be conducted on a regular basis. Reviewers should have sufficient oversight of the mission or activity and controls to provide valid input on changes or adjustments needed. If the residual risk rises above the level already approved, operations should cease until the appropriate approval authority is contacted and approves continued operations.

**14. Feedback and Lessons Learned:** Provide specific input on the effectiveness of risk controls and their contribution to mission success or failure. Include recommendations for new or revised controls, practicable solutions, or alternate actions. Submit and brief valid lessons learned as necessary to persons affected.

**15. Additional Comments or Remarks:** Preparer or approval authority provides any additional comments, remarks, or information to support the integration of risk management.

**Additional Guidance:** Blocks 4-9 may be reproduced as necessary for processing of all subtasks/ substeps of the mission/task. The addition and subtraction buttons are designed to enable users to accomplish this task.