

Identifier:

DPTM-SOP-LRC

Revision:

0.0

Effective Date:

15 Feb 18

Document Approval Date:

15 Feb 18

Proponent: USAG-WP, Dir Plans, Tng, Mob & Security



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U.S. Army Garrison-West Point DPTMS – Range Operations Policy & Procedures



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U.S. Army Garrison West Point
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West Point, New York 10996-5000

Document History

Document Location

All hard copies will be located at Building 1403 Range Operations Fire Desk. Also, electronic copies may be retrieved via DPTMS website (Training Link), or upon request.

Revision History

Date of this revision: 15 Feb 2018	Date of next revision:
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Revision Number	Revision Date	Summary of Changes	Author
1	5-3-14	Minor Grammar Changes	Lake
2	2-10-15	Minor Grammar Changes	Lake
3	1-6-16	Minor Grammar	Lake
4.	3-17-17	Minor Grammar Changes	Lake

Approvals

This document requires the following approvals:

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	USAG-WP, Director of Plans, Training, Mobilization & Security

Distribution Formula

This document has been distributed to:

Office	Name Title
Scheduled User	Issued Hard-bound Binder copy during use of range/facility
USAG-WP	Range Operations Office

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1. General Information

1.1 Purpose

This Standard Operating Procedure (SOP) provides standard instructions and checklists for unit and individuals using the Lundy's Lane Leadership Reaction Course (LRC). It defines standardized steps and procedures to be followed for its safe and efficient use.

This SOP is directive based and complies with applicable United States Military Academy and Department of the Army Regulations, current doctrine, policy and guidance.

1.2 Applicability

This SOP is designed to provide units with safe range operating procedures and guidelines. It applies to all units of the U. S. Armed Forces, civilian organizations, and individuals who are authorized to use this range or training facility at West Point, and by all applicable users IAW West Point Regulation 350-11 and DA Pam 385-63, dated 12 May 2009..

1.3 Responsibility

Use this SOP in conjunction with AR 385-63, DA Pam 385-63 and West Point Reg. 350-11 which provide specific and detailed range responsibilities for using units. These directed and required actions are necessary for the safe conduct of all training. Full compliance IAW the afore-mentioned regulations as well as steps and procedures of this SOP, is the responsibility of the commanders, as well as the personnel of using organizations or units. Personnel of any non-DoD civilian agency or activity, using West Point ranges and training facilities must also comply with the provisions and requirements outlined in West Point Reg. 350-11.

1.4 References

All required and related publications are those covering the training conducted and those listed in the applicable chapters and Appendix A of West Point Reg. 350-11 or other respective regulations, policies and procedures. Additional references are also listed at Appendix A, of AR 385-63 and DA Pam 385-63.

1.5 Suggested Improvements

The proponent of this Standard Operating Procedure (SOP) is the Director of Plans, Training, Mobilization and Security, U.S. Army Garrison West Point, ATTN: DPTMS, Building 621, Wilson Road, United States Military Academy, West Point, New York 10996-5000. Users are encouraged to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms).

2. Lundy's LRC Description & Characteristics

2.1 Specialty Course Description

Lundy's Lane Leadership Reaction Course (LRC) is an outdoor leader and team building facility. Thirteen (13) structured "leadership challenges" encourage participants to think, react and work as a team to solve problems in a determined period of time. Leaders receive a mission; brainstorm and problem solve with their team using only the materials provided and then execute and re-adjust to compete in the obstacles challenge. The obstacles present a challenging and unique learning environment that can only be overcome with leadership and teamwork and stress the following:

- 1) Clarify roles and responsibilities.
- 2) Learn task, time, material, and personal management
- 3) Employ and master multiple ways of communicating, delegating, and assessing goals, tasks, timelines, and achievement
- 4) Develop or enhance skills in planning, problems solving, conflict resolution and abilities to inspire greater camaraderie.
- 5) Strengthen peer and subordinate team relationships.
- 6) Develop or increase group cohesion and "can do" morale.

2.2 Specialty Course Location

Lundy's Lane LRC is located in training area K, vicinity grid WL79337766. Access is off of Route 293, approx. ¾ mile south of Mine Torne Road.

2.3 LRC Execution

The LRC performance measures (task, condition, standard) are outlined in chapter 6, LRC Concept of Operation of this SOP. Each of the thirteen (13) leadership challenges comes with prescribed equipment that are the ONLY authorized materials that can be used by the team to negotiate the obstacle and complete the mission. All equipment is located in a connex container on the facility, located behind Obstacle #13, The Tubes.

2.4 LRC Specific Safety Measures

2.4.1 Gate Guard Requirements

Not required.

2.4.2 Gate Closures

GATES	RANGES AND/OR ROADS
None applicable	None applicable.

2.5 LRC Support Facilities

2 Each Portable Toilets (Located in parking lot)
--

NOTES: NA

2.6 Authorized Parking

Military Vehicles – Available on site.

Civilian Privately Owned Vehicles (POVs) – Available on site for OIC and RSO only.

2.7 Communications

The Lundy's Lane LRC must maintain communication with Range Operations at all times. Primary means of communication with Range Operations will be by Motorola Handheld "**Livefire**" Channel. Land line does not exist at this training location.

3. Lundy's LRC Safety & Security Procedures

3.1 Individual Personal Protection Equipment (PPE)

- a. At the Commander's discretion Ballistic (Kevlar or Army Combat Helmet (ACH) **WILL** be worn for safety and protection by all personnel negotiating each obstacle.
- b. The use of leather gloves is recommended.

3.2 LRC Specific Safety Measures

- a. General safety precautions that must be considered and conducted:
 - 1) Inspection of structural integrity and any required safety devices installed prior to obstacle use.
 - 2) Ground covering must be inspected and may need remedial work prior to use. Landing and fall areas under obstacles raked and refilled as needed before each use.
 - 3) Training is postponed / modified when obstacles are slippery due to inclement weather.
 - 4) Instructor training on operation of obstacles prior to conduct of course.
 - 5) Range Operations maintains each obstacle. At times certain obstacles may be closed off due to maintenance deficiencies and will be CLOSED and marked OFF LIMITS.
 - 6) OIC maintains a current risk assessment updated prior to each day's training and updated as conditions change.

3.3 Ammunition Amnesty Program

The Ammunition Amnesty Program is designed to ensure maximum recovery of ammunition and explosives. This program is not intended to circumvent normal turn-in procedures. Other munitions and ammunition above 7.62mm will be retrieved only by EOD, ASP or Range Operations personnel. Documentation is not required for turn-in under the Ammunition Amnesty Program. Contact West Point ASP Office at commercial telephone 938-3216 for further information.

4. Specialty Course Operational Requirements/Responsibilities

4.1 Range Officer in Charge (OIC) / Range Safety Officer (RSO) Appointment Requirements

WEAPON SYSTEM	OFFICER IN CHARGE (OIC)			RANGE SAFETY OFFICER (RSO)		
	OFF	CADET	NCO	OFF	CADET	NCO
Practice hand grenade simunitions training devices; simulators, and small arms (5.56mm and below)	X	N/A	E6(P)	X	X (Wpns Qualified)	E5(P)
Chemical Agents (CS) and smoke	X	N/A	E6 (MOS Qualified)	X	N/A	E5
Aerial gunnery, live grenades, grenade launchers, grenade machine guns; Live mines, and demolitions.	X	N/A	E7	X	N/A	E6
Field Artillery and LASER ranges	X (0-3)	N/A	N/A	Battery XO X	N/A	N/A
Live Fire Exercises using organic weapons, team through squad.	X	N/A	N/A	X	N/A	E7
Mortars	X	N/A	N/A	X	N/A	E6
Direct fire antitank rockets	X	N/A	E7	X	N/A	E6
Specialty Non-LFX Courses	X	N/A	E6	X	X	X
Specialty Non-LFX Courses (Rappel) * Rappel Master Certified	X*	N/A	E7*	X	N/A	E6

Table 4-1, OIC / RSO Appointment Requirements

4.2 Range Officer in Charge (OIC)

The Range OIC holds the responsibility and accountability for the conduct of the activity and the adherence to governing regulations and guidance.

4.2.1 OIC Qualifications

A commissioned, warrant, or noncommissioned officer (NCO) may serve as a Specialty Course OIC. NCOs serving as OIC will be in the grade as shown in Table 4-1 above, at a minimum. Facility OICs will

be qualified on the safe conduct of obstacle negotiation and will have satisfactorily completed a safety certification program for which they are responsible conducted by their Battalion/Unit (O5 & above Command) to which they are assigned.

4.2.2 OIC Actions & Procedures before Range Occupation

STEP	ACTION	TAKEN
1	Thoroughly plan the range operation and/or training activity and determine the personnel and equipment support requirements.	
2	Be qualified, and that his/her command safety certification and appointment is completed, and on file at Range Operations.	
3	Receive the mandatory Range Operations briefing within ONE DAY prior to use.	
4	Ensure a qualified LRC obstacle instructors are trained on the operation and correct negotiation of each obstacle prior to running the course.	
5	Verify that all personnel in a direct supervisory role or safety position are familiar with the provisions of this SOP, West Point Reg. 350-11, and TC 3-22.20, Army Physical Readiness Training.	
6	Ensures that the required and appropriate medical support personnel are qualified. All appropriate equipment and supplies are available to support the range operation(s) and/or training activity.	
7	Check in at Range Operations upon arrival to the installation to receive an updated briefing and sign for the range and necessary support equipment.	
8	Develops a composite risk management worksheet for all phases of the range operation(s) and/or training activity, and mitigate initial high and extremely high hazards through appropriate control measures, using DA Fm 2977.	

4.2.3 OIC Actions & Procedures before Operations

STEP	ACTION	TAKEN
1	Ensures the correct training facility is occupied, and conducts a joint inventory with a Range Operations representative to verify the presence and condition of the facilities, obstacle equipment and general condition of each obstacle.	
2	Conducts a OIC brief to the LRC obstacle instructors, reinforcing their duties and responsibilities on the conduct of the range operation.	
3	Directs and supervises that the required designated areas of the training facility are established and set up as required/planned.	
4	Establishes radio and communications with Range Operations, and notifies Range Operations upon initial occupation.	
5	Verify that the required medical personnel and equipment support is on site, with strip maps to local medical treatment facilities is present, prior to requesting a HOT status.	
6	Verify the continuous safety and security of all personnel as they negotiate each leadership obstacle.	
7	Verify that all personnel wear the required personal protection equipment, as the commander dictates.	
8	Ensure all applicable references and regulations are physically present and on hand:	
9	Notifies Range Operations and requests permission to place the range in a HOT status (Refer to paragraph 7.1).	
10	Implements risk management actions and applicable control measures identified for this phase of the range operations and/or training event.	

4.2.4 OIC Actions & Procedures during Operations

STEP	ACTION	TAKEN
1	Be present at all times at the confidence course training facility while the facility is in a HOT status, and maintains a constant observation of the facility to ensure that obstacles are being safely and properly negotiated. Greet and brief all range visitors/VIPs, and Range Operations personnel.	
2	Verify that all personnel prior to negotiating obstacles receive a safety briefing, and that each obstacle is negotiated properly and safely. Reference Chapter 9).	
3	Ensures that communications with Range Operations are maintained, and that hourly radio checks are performed (Refer to paragraph 7.4)	
4	Immediately calls or announces a self-imposed "Cease Training" and notifies Range Operations when:	
5	Any unsafe action is observed or reported by ANY individual observing an unsafe act.	
5a	When communications are lost with Range Operations and/or Gate Guards.	
5b	When any personal injury occurs.	
5c	Whenever the OIC or medical support leaves the training facility.	
5d	Notifies Range Operations when a change in OIC is needed (refer to paragraph 7.3).	
6	Implements risk management actions and applicable control measures identified for this phase of the range operations and/or training event.	

4.2.5 OIC Actions & Procedures after Operations

STEP	ACTION	TAKEN
1	Notify Range Operations upon completion of training and request permission to go COLD (reference procedure 7.2). Be prepared to report:	
1a	Number of personnel trained.	
2	Contact Range Operations for range clearance/inspection after performing the following:	
2a	Remediate any obstacle deficiency created during facility use (i.e. raking sand pits) and replace safety equipment in appropriate storage area.	
2b	Police range for all trash and place in local dumpster. NO MREs, kitchen waste will be placed in the dumpsters.	
2c	Check overall condition of the range to include all range support facilities and repair any deficiencies or faults discovered if applicable.	
2d	Hand receipted range equipment and supplies are recovered, cleaned and prepared for turn-in.	
3	Conduct a joint inventory IAW range clearance agreement with a Range Operations representative for clearance of the training area, and secure the facility.	
4	Return all hand-receipted range equipment, along with any applicable reports/forms to Range Operations.	

5. Specialty Course Medical Requirements & Evacuation

5.1 Unit Medical Support Requirements

Units will comply with the following range medical support requirements:

- a. A current qualified Combat Lifesaver (MOS immaterial). This individual will be equipped with a litter, radio communication, and a Combat Lifesaver (CLS) aid-bag, containing all required CL VIII items that have a valid expiration date.
- b. A dedicated medical evacuation vehicle, capable of transporting a litter, and properly equipped, and with a current PMCS. CLS personnel assigned to these ranges, along with the supporting medical vehicle, will not be used for any other duty.

5.1.1 Execution

- a. Using unit medical personnel will review and familiarize themselves with the strip map route(s) to KACH ER and the local community hospitals prior to operations are conducted.
- b. Whenever the dedicated medical aid person or vehicle must leave the area for any reason the training facility must Cease Training and remain in a "COLD" status until a replacement is provided, or until the assigned vehicle and medical personnel have returned to the course. Range Operations will then grant the unit permission to re-open the facility and place the facility in a "HOT" status.
- c. Medical support personnel at the facility will provide treatment for minor injuries and basic first-aid for life-threatening injury or illness.
- d. Medical evacuation vehicles will display all frequencies and telephone numbers in case of immediate use:
 - a. Range Operations Frequency is Motorola Handheld "Live fire" Channel.
 - b. West Point Fire & Emergency Services Division – 845.938.5197
 - c. Range Operations Air Radio VHF 126.20.
 - d. KACH ER – 845.938.4004 / 5169.

5.2 Keller Army Community Hospital (KACH)

Injuries and/or illness requiring immediate emergency support will be immediately reported to the KACH ER, with the location of the site for patient evacuation by KACH.

5.3 Serious Incident Report (SIR) Requirements

Full and immediate medical attention directed at the patient is the first and foremost priority. As soon as possible, the Range OIC or RSO will contact Range Operations and report the medical injury/accident. Be prepared to provide at a minimum "the Five W's" (Who, What, When, Where and Why).

5.4 Emergency MEDEVAC Flight Requests

West Point does NOT have organic MEDEVAC capability to support training complex operations, therefore using units and organizations will plan medical evacuation with their own organic assets. Stat Flights are for the emergency evacuation of injured personnel by air ambulance. Only the emergency first responder on site, DES dispatcher or KACH medical personnel are authorized to request or terminate a

MEDEVAC mission. To obtain a Stat Flight, contact Range Operations by Motorola Handheld "Livefire" Channel or by telephone at (845)938-3930. After Hours the Military Police Dispatch at (845)938-3333. Air Frequency is VHF 126.20.

9-LINE MEDEVAC		
ANNOUNCED		LINE INFO DESCRIPTION
LINE	LINE INFO	
1		Location of the Pick-Up site by 6-digit grid and any prominent terrain features nearby.
2		Unit Identification
3	A= B=	Number of Patients by evacuation category/precedence A=Urgent (requires immediate evacuation to prevent loss of life B=Priority (serious injury, but <u>NOT</u> life threatening
4	A= B= C= D=	Special equipment needed: A=none B=hoist C=extraction equipment D=ventilator
5	A= B=	Number of patients A=litter B=ambulatory
6		Number and types of wounds, injuries and illnesses
7		Method of marking landing zone/pick-up site A=panels B=pyrotechnic signal C=smoke signal D=none E=other
8		Patient nationality and status A=US military B=US civilian C=other (describe)
9		Terrain description of pick-up site, any site hazards; if none=so state

5.5 Hospital Strip Maps & Directions

5.5.1 Keller Army Community Hospital

Reference Tab 10A, Local Strip Map to Keller Army Community Hospital

5.5.2 St. Luke's Community Cornwall Campus Hospital, Cornwall, NY

Reference Tab 10B, Local Strip Map to Saint Luke's Community Hospital.

6. Lundy's Lane LRC Concept of Operations

6.1 Lundy's Lane LRC Method of Operations

- a. The class participating in the course is organized into ten-Soldier groups. Each group is given a numerical designation. A rating officer is assigned to each group. When the group arrives at the task the rating officer conducts an orientation.
- b. The rater should make a list of names of Soldiers in the group, and divides the group into two teams of five each.
- c. The rating officer appoints a leader, then reads the task situation to the leader and observing team only. The leader then issues the mission to the working team, and then directs the working team to begin work. The rating officer directs the observer team to observe the working team from a leadership standpoint so they might contribute to the critique which follows the completion of each task.
- d. The command "CEASE WORK – REPLACE ALL EQUIPMENT AT THE STARTING POSITION," is given by the principal instructor 12 minutes after the initial command. All teams then cease working.
- e. During the next 5 minutes each group replaces the equipment and the rater conducts a task critique.
- f. At the end of the 5 minute critique period, the rating officers move their respective groups to the next task. Without further orders, the rating officer reads the next task situation, and directs the second five-Soldier team to begin work. The first team sits on the observer's bench. This procedure of rotating teams is repeated until the course is completed.

6.1.1 Task One, River Crossing



Soldier Briefing: You are in charge of an ammunition detail delivering ammunition to your unit, which is in very heavy contact and in serious need of the ammunition. On your way back you encounter this obstacle which you must cross using the available equipment. The river is deep, fast and not fordable at this point and anyone falling in the river will be swept away. All members must cross the obstacle along with all equipment. Begin work.

Safety Factors:

1. Do not allow Soldiers to throw planks, rifles or ammunition.
2. No jumping until one or both white marks on the rails has been reached by a plank.
3. Ammunition must be under control, i.e. not dropped or thrown.

Instructions to the Rater:

1. A foul occurs when:
 - a. A team member touches any area painted red.
 - b. A piece of equipment touches any area painted red.
 - c. A team member or any piece of equipment touches water.
2. You may penalize the team 10 to 60 seconds for fouling by:
 - a. Move team back one stage.
3. The planks may touch the bars only but no other part of the obstacle.
4. All equipment used by the group must be taken with the group.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Iron Rails	2	Installed on Bridge
Wood Plank	2	2" x 6" x 96"
Wood Plank	2	2" x 6" x 40"
Wood Plank	2	2" x 6" x 28"
Ammo Box	2	7.62 Cans (INERT)

Solution.

1. Lean one of the 2x6x96 planks on the left (or right) iron rail; then put the other 2x6x96 plank at a 90° angle across the two iron rails.
2. Have the two individuals crawl up plank one, and sit on plank 2. One should sit near the left rail and one should sit near the right rail. The two 2x6x96 planks should be passed up to the two individuals sitting on the obstacle. Each 2x6x96 plank should be placed planted between plank 2 and the iron rail (one on the left rail and one on the right rail).
3. The two men on the obstacle should now slide the board configuration on top of the obstacle up about 3 feet forward. The one man on the plank 1 side of the obstacle should now help 3 or 4 individuals up on the board configuration on top of the obstacle. (These people should sit.) Now the ammo boxes should be sliding plank 1 to the person that helped people to the boards and then passed to the people sitting on the boards. Now plank 1 and both 2x6x40 boards should be placed on the obstacle just like board construction #1.
4. Individuals on the ground should now be pulled on to the obstacle. Distribute individuals evenly between the two configurations. Both configurations should be slid down the obstacle. When configuration 1 touches white marks at the end of the rails then two individuals from that configuration should jump off. Ammo should now be passed back to configuration 2. Remaining individuals of configuration 1 should not jump off. One individual from configuration 2 should now pass the 2x6x28 boards down from configuration 1. This individual should also help to place the 2x6x96 planks of configuration 1 slanted on the obstacle. He may then walk down. In the meantime, people on configuration 2 should be sliding planks to white marks on the end of the rails.
5. Individuals on the obstacle should now slide ammo down plank leaning on obstacle while those on the ground balance it. Now all personnel but one should walk off of the obstacle. That person will pass remaining boards down and walk off obstacle. Remove leaning plank from obstacle.

6.1.2 Task Two, Moving Bridge



Soldier Briefing: Your unit has just established a foothold on the far side of a steep cliff. Your team has a box of ammunition which must be delivered in 12 minutes to a machine gun squad or they will become casualties. You have no choice but to get your team and the ammunition from one side of this gap to the other side. The ground around and between the bars is heavily mined and may not be touched by anyone or anything. As equipment you have two planks. You have to take the equipment that is used with you. All team members, equipment, weapons and ammunition must be on the ground on the other side for mission accomplishment. Begin work.

Safety Factors:

1. Running and jumping are not allowed.

Instructions to the Rater:

1. A foul occurs on this task when any person or piece of equipment touches the red or simulated area.
2. You may penalize the team by having one or more men return to the starting point. The team may also be assessed a time penalty (10 to 60 seconds) if a foul occurs.
3. All team members, weapons and ammunition must be on the ground on the other side for mission accomplishment.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Wood Plank	1	2" x 6" x 7'
Wood Plank	1	3" x 12" x 9'5"
Ammo Box	1	100 lbs.

Solution.

1. Place the 2x12x9'5" plank as a bridge between the rock and the starting side and the first swing. Have two individuals walk up the first plank. Now pass these two people on the obstacle the 2x6x7 plank. This plank should be placed as a bridge between the two swings.
2. Now two more individuals should walk up plank 1 and across plank 2 and stand on the 2nd swing. The two people on the first swing should now sit. Someone remaining on the ground should now pass the ammo box to one of the people sitting on the first swing. The free person on the swing should push down plank 1 while someone on the ground pushes the plank across. One of the people on plank 2 should stand on plank 2 and help bring plank 1 over to make a bridge from the 2nd swing to the rock on the finish side. Before attempting to make a bridge the two men on swing 2 should sit on that swing and use their feet to help balance and guide this plank on top of that rock.
3. The people on swing 2 should now stand and the ammo should be passed to them. One person on swing 2 should now take the ammo to the finish side using plank 1. The other person on swing 2 should now walk off. One person from swing 1 should now move to swing 2 and move (with help from people on finish side) plank 1 back to its position in illustration 1. Now two people should be shuttled across to swing 2, and plank 1 should be moved to its position in illustration 2. The people on swing 2 should now walk off the obstacle. Plank 1 should be shuttled back and forth until all personnel are on or have gone through the obstacle. Two men should remain on swing 2 and remove this small board balanced between swing 1 and 2. They should then walk off the obstacle. At least 2 or 3 men should remove plank 1.

6.1.3 Task Three, Bridge the Gap



Soldier Briefing: Your team has been sent back to get a drum of gasoline you observed in the area during your advance. When you crossed this stream on your way to get the gasoline, this bridge was intact. However, since then enemy artillery has destroyed the center span. This is your only way of getting across this dangerously swift river. Using the equipment provided, your mission is to get the drum of gasoline, your entire team and all equipment used across the obstacle. Also, the area directly beneath the bridge is quicksand and should an individual or any equipment fall in, consider it a loss. Begin work.

Safety Factors:

1. No jumping at any time
2. Do not allow Soldiers to go on an extended plank if sufficient weight is not on the critical end of the supporting plank.

Instructions to Rater:

1. Very few work teams will foul on this task. A foul occurs when:
 - a. A plank touches the water between the spans of the bridge
 - b. A team member touches the water
 - c. The 55 gallon drum is dropped
2. When a plank or team member touches the water, penalize the team with the loss of the plank or the temporary loss of a team member. If the barrel is dropped, have it returned to the starting position and penalize the team by requiring them to start over.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Wood Plank	1	2" x 12" x 8'
Wood Plank	1	2" x 12" x 6'6"
Steel Oil Drum	1	55 Gallon Drum (Empty)

Solution.

Slide short board towards far platform until about 30" remains on platform. Weight the end using 3-4 people standing on the end. They may need to grab onto each other or ride piggyback to concentrate their weight on the board's end. Send one strong, light team member out onto the short board carrying the long board with him. He either swings the end of the long board or drops it into position to bridge the gap from the far platform to the end of the short board. There should be about 3" overlap on the far side and about 5" overlap between the two boards. He then walks to the far platform, avoiding stepping on the board overlap area. Continue sending people across until about ½ the squad's weight is on the far side. Slide the long board more onto the far platform until about 30" is on the far platform while the remainder of the squad on the near slide/bounce the board towards the extended end of the long board until the gap is bridged again with about 3" overlap. The long board is slid onto the far platform. Mission is complete when all equipment and people are off the far platform.

6.1.4 Task Four, Tank Trap



Soldier Briefing: Your patrol is advancing into enemy territory to set up a forward air control post. To get to your destination, you must cross this minefield and tank trap. You must take your sensitive radio equipment which is in the drum; handle it carefully. The only safe areas to touch are the sloping sides. You discover a cable apparently forgotten by the construction crew. You cannot untie the cable; it is securely belted to the framework. You cannot touch any of the red areas; they are booby trapped. You must cross quickly because an air strike is due for your control in 15 minutes.

Safety Factors:

1. This task should not be run in the rain
2. The 55 gallon drum will be empty
3. Do not allow Soldiers to slide down the sloping sides or to jump from one slope to the other. Weapons will not be thrown.

Instructions to the Rater:

1. A penalty will be assessed if anything or anybody touches the minefield or any area painted red.
2. A penalty will be assessed for unnecessary rough handling of the drum.
3. A foul may be assessed by sending the lead man back to the beginning of the task, or by assessing a time penalty.
- 4.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Oil Drum	1	55 Gallon Drum (Empty)

Solution.

Two men should use the cable to try and climb to the top of the tank trap. Two different men should now use the cable to climb to the other side of the tank trap. Two men on the ground should now put one foot on the tank trap and one on the ground. They should be handed the 55-gallon drum and should tie the cable to the drum. They then set the drum on the tank trap. The two men on top of the tank trap should now carefully pull the drum up to the top of the tank trap. The two men on the finish side of the tank trap should now place one foot on the tank trap and one on the ground. The two men on top of the trap should now lower the 55-gallon drum to the two men on the finish side of the trap. These two men should now untie the drum and place it on the finish side of the obstacle. The cable should now be passed to the start side of the obstacle and remaining personnel should climb up, over, and off the tank trap.

6.1.5 Task Five, Minefield One



Soldier Briefing: You are leading a team on a reconnaissance mission and you come into heavy contact with the enemy. Based on your mission alone, you decide to avoid contact with the enemy. As you proceed along your route, knowing the enemy is in rapid pursuit, you encounter this enemy minefield. Time doesn't permit you to determine its width so you must cross it here using this equipment you've collected in the vicinity (rater point out). You must get your entire team across along with any equipment used to get across. You estimate the enemy to be about 12 minutes behind. Begin work.

Safety Factors:

1. No jumping between obstacles.
2. Do not allow Soldiers to throw rifles.

Instructions to Rater:

1. A foul occurs when an individual or piece of equipment touches the ground between start and finish or anything painted red.
2. The team can be penalized by:
 - a. Losing working time.
 - b. Loss of equipment and personnel.
3. Any equipment must be taken with the group.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Rope	1	1" x 15'
Wood Plank	1	2" x 6" x 6'
Wood Plank	1	2" x 6" x 8'

Solution.

1. Place the 2x6x8 plank as a bridge between the raised boards at the beginning of the obstacle and the stump to the far left (or far right). Have one man walk across with the 2x6x6 plank. This plank should be placed across the two stumps that are the farthest apart and underneath the longer plank.
2. Now one or two men should be sent to stand in the center of the obstacle. Plank 1 should now be shifted as a bridge between the raised boards and the finish side.
3. One or two men should now be sent to the finish side of the obstacle (as long as one man stays in the center of the obstacle). Plank 1 should now be returned to its position in illustration 1 and two more men should walk to the center of the obstacle. The plank one should be returned to illustration 2 and two more men should walk off of the obstacle. This shifting of plank 1 should be repeated until all men are on or have completed the obstacle. The rope can be carried by any of the people crossing the obstacle.

6.1.6 Task Six, The Wall



Soldier Briefing: Your unit has been engaged in very heavy contact and you have the mission of skirting the enemy's flank to place effective small arms fire on the enemy's flank. You've been mobbing through heavy underbrush for approximately 10 minutes when you encounter this enemy obstacle (possible minefield) (rater point out). The only way to negotiate this obstacle in time to save the remainder of your unit is to go over it. Your last radio transmission with the company commander indicated they could only hold out for another 12 minutes. Begin work.

Safety Factors:

1. No jumping at any time.
2. Do not allow rifles/equipment to be thrown.

Instructions to the Rater:

1. On this task, a foul occurs when:
 - a. Any area painted red is touched by a team member or a piece of equipment.
 - b. A team member or piece of equipment touches the ground between the obstacle and the start point.
2. Do not allow Soldier to jump at any time.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Rope	1	1" x 30'
Ladder	1	12' length

Solution.

1. Tie the rope to the last rung of the ladder. The free end of the rope should be tied to a center rung on the ladder.
2. Now the ladder should be stood up on the rock at the beginning of the obstacle.
3. The ladder should be lowered on to the 4x4 in the center of the slanted part of the obstacle.
4. Make sure the ladder is centered on that 4x4 and steady. People should now walk across the ladder and climb to the top of the obstacle (send small people across first). A limit of four people can be on the top of the obstacle. When this limit is reached let someone hang from the obstacle and jump to the finish side of the obstacle. When the last man walks across the ladder he should pass the rope up to someone on top of the obstacle. When the last 4 men are on top of the obstacle, two men should pull on the part of the rope tied to the end of the ladder resting on the obstacle to keep that end in place while the other 2 people pull up on the center of the ladder until the ladder is vertical or in reach. When the ladder is in reach one person from each part of the rope should grab the ladder and have the ladder on top of the obstacle. These four men should now hang and jump off of the obstacle.

6.1.7 Task Seven, The Cliff



Soldier Briefing: You have been attempting to get to your front lines to deliver a box of urgently needed ammunition. The ammo has been air dropped and is highly sensitive. You must scale this cliff and cross the river on the remains of a chain bridge, the floor of which has been destroyed. All team members must cross. You must take the ammunition with you. You have one short plank which you found in the vicinity. This plank, if used, must be taken with you. The water and sides of the bridge are off limits. The area between the base of the cliff and the water is heavily mined. Any equipment allowed to touch the water will be swept away by the force of the current. Begin work.

Instructions to the Rater:

1. Although this problem is a test of a group's problem solving ability, it is a greater test of their ability to cooperate and work as a team. Even the most agile will have difficulty scaling the cliff and crossing the river on an unstable platform.
2. A foul occurs when, in your opinion, the work team touches or uses the side rails. (If it were possible to build a true cable suspension bridge on this problem, the side rails would be of rope or steel cable. Team members would not be able to crawl or walk across on such a side rail.)
3. A positive foul occurs when the plank, ammo box or a team member touches the water. The penalty should be the loss of the plank, or the team member, or stopping progress for a period of time.
4. Do not allow Soldiers to throw rifles, ammunition or the plank.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Wood Plank	1	2" x 12" x 33"
81mm Ammo Box	1	50 lbs.

Solution.

Four people should be helped on top of the grey wall. One tall man should hang from the wall and step on the first chain of the washed away bridge. This man should now lay stretched across the first two chains and grab the third chain. A second man (tall) should get on the chains and crawl across the first man until he reaches the last three chains. He should then lay across these last three chains. One shorter person should be lowered on the human bridge. This person should crawl across the bridge to the finish side of the obstacle. An agile person should be lowered to the bridge and given an ammo box. This person should crawl across the bridge with the ammo box and pass it to the person on the finish side. All short and non-agile personnel should be lowered to the bridge and crawl across. The two people who made up the bridge should drag themselves across the chains to the finish side of the obstacle.

6.1.8 Task Eight, Blood Expander



Soldier Briefing: Both ends of this bridge have been destroyed. All that remains are these columns supporting a steel rail across this deep river. Notice the twisted offshoots from the rail. The red tips of the offshoots are razor sharp and must not be touched. This box contains dextran which is a blood expander. Your team must take this equipment across the stream to a headquarters some distance beyond. As tools, you have one rope, one strap and two boxes. One box must be left on this side. The dextran must be moved as one unit. No jumping is allowed on this task. Begin work.

Safety Factor: Have Soldiers fall into the water rather than try to jump to the bank.

Note: At the beginning and end of this task one box must be on each side of the obstacle.

Instructions to the Rater:

1. On this task a foul occurs when:
 - a. Any person or piece of equipment touches the water between the columns.
 - b. The box or its contents are allowed to drop or are dumped against another object.
 - c. Any person or thing touches those parts of the offshoots painted red.
2. Do not throw soda case across water and do not allow Soldiers to tie medical supplies around waist.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Rope	1	15' length
Strap	1	48" length
Box	2	Soft Drink Cases
Blocks	24	2" x 2" 1'

Solution.

One tall, strong team member should lean on his back on the pole on the starting side of the obstacle without touching any red portions of the obstacle. He should then cup his hands and allow the most agile squad member to step in his hands and climb the pole. Personnel on the ground should now pass the rope to the squad member on top of the obstacle. The person should then tie the rope to the top of the obstacle, allowing 5-6 feet of rope to dangle. This rope will be used by other team members to assist them in climbing the obstacle. The box of Dextran should be passed up to the person on top of the obstacle. Send another team member up to assist in sliding the Dextran across the obstacle. As these two members move towards the finish side of the obstacle, send more team members up. Make sure an agile person is the last to come up. When the first two squad members get to the other side of the obstacle, the first man must dismount by sliding down the pole and jumping before any part of his body touches the red. The second person should now pass the box of Dextran down to the squad member now on the finish side of the obstacle. The person on the finish side of the obstacle should pass the empty box up to the second person. There should be enough personnel on top of the obstacle to allow the squad to pass the empty box from hand to hand back to the beginning of the obstacle and on the ground. The last man should be helped up the obstacle. The rope should be untied and all people should slide across the obstacle and dismount.

6.1.9 Task Nine, Minefield Two



Soldier Briefing: You are leading a team carrying a container of land mines to be used in a defensive position to your front. Directly astride your route lies this minefield, the left and right limits of which you cannot determine. You may use any or all of these remnants (rater to point out) to reach the other side of this minefield, thus placing you in a position to continue on your mission. You just happened to find this equipment (rater to point out) to assist you. All team members and mine containers must cross. Begin work.

Safety Factors: No jumping is allowed on this task.

Instructions to Rater:

1. A foul occurs when an individual or any piece of equipment touches anything red on inside of minefield.
2. Team may be penalized by:
 - a. Loss of equipment.
 - b. Loss of personnel, and
 - c. Loss of time (10 to 60 seconds).
3. Soldiers may not go around obstacle.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Pipe, Steel	2	3" x 12'
Mine Box	2	100 lbs.

Solution.

Take one of the pipes and set it inside the "V" of the V-shape bar close to the start of the obstacle. Slide the pipe forward until approximately one foot of pipe is still on the un-mined side of the barbed wire. Three to four personnel should put pressure on the near side of the pipe while one light and strong individual walks to the end of the pipe. The individuals not doing anything should get the other pipe and slide it up the first pipe to the individual on the end of the pipe. This person should now guide the second pipe onto the raised boards in the center of the mined field. The near side of the second pipe should cross over to the second pipe and on to the raised boards in the center. The first pipe should now be pulled back away from the obstacle. Another man should walk across to the raised boards in the center of the obstacle. The first pipe should now be slid across the pipe resting on the raised boards and v-shaped bar until the people on the boards can reach it (personnel on boards should be seated). While one of the two people on the boards puts downward pressure on the back of the pipe the other should push the pipe forward until the front end of the pipe is on top of the rocks to their immediate front and the back end of that pipe should rest on the boards. A human chain should be made on the pipe bridge. Start the chain by allowing one man to walk across the rocks on the far left side of the obstacle. The chain should be built backwards from there. Steady points will be the man on the rock, the two men on the center boards and one man in the un-mined area of the obstacle. The people making up the bridge should only use one hand to steady themselves and when a steady point cannot be reached, grab a piece of their nearest classmate's clothing in the waist area. The mine boxes should be handed across the bridge one at a time. Personnel should exit off the pipe bridge in the order in which they are standing now except the two people sitting on the center boards. They will leave the obstacle last.

6.1.10 Task Ten, Electric Fence



Soldier Briefing: You are leading a group sent into enemy territory to destroy and ammunition dump. The dump is surrounded by an electric fence and guarded by a roving patrol. The area around the fence is heavily mined and quite naturally the fence cannot be touched. You've brought with you this equipment (rater point out). You've also bought 80 pounds of explosives to use in blowing the dump. All team members must cross over the fence, place and set the charge, and return before the enemy patrol returns. The patrol has just passed and is due to return in 12 minutes. Any equipment used must be taken with the group. Begin work.

Safety Factors: Do not allow the Soldiers to jump or throw any equipment.

Instructions to the Rater:

1. A foul occurs when an individual or any equipment touches the fence or red area.
2. Teams may be penalized by:
 - a. Loss of equipment.
 - b. Loss of personnel.
 - c. Assessing a time penalty (10 to 60 seconds).

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Ladder	1	8' length
Pole	2	2" x 10'
Rope	1	30' length
Ammo Box	2	7.62 Ammo Boxes (Inert)

Solution.

1. The squad should tie one end of the rope to the end of the ladder that has the rung closest to the ladder's end.
2. The ladder should now be stood up vertically and positioned as close to the red boards at the start of the obstacle as possible. The ladder should also be positioned in a manner that would allow a squad member to climb it. Three to four people should be holding the rope to lower the ladder.
3. One person should steady the left leg of the ladder and another person should steady the right leg. The ladder should be lowered enough to allow the lightest person with good upper body strength to go up the ladder. After this individual has mounted the ladder, the ladder should be lowered 6-12 inches away from the fence. Personnel not doing anything should hand one pole to the person on the ladder. This person should pace the pole on top of the ladder and slide it forward until the tip of the pole can reach the far side of the obstacle without hitting the red board or any mines.
4. The ladder should be lowered onto the pole to brace it up against the pole (make sure the pole is on either the left side or the right side of the ladder). The other pole should be braced underneath the other side of the ladder. These poles should be secured to the ladder. Starting with the man

on the ladder, individuals should now start moving over the obstacle by climbing up the ladder and walking or sliding down the poles.

5. Two of the stronger men should carry one ammo box across (each sliding the ammo down to their classmates once at the poles). Once everyone is across, one of the squads most agile people should walk across the pipes to the ladder and down the ladder then steady the ladder for everyone else to come across. Once everyone is across the ladder the poles should be pulled back from over the fence as one unit.

6.1.11 Task Eleven, Ammo Detail



Soldier Briefing: Your patrol has been instructed to recover a small load of 81mm mortar ammunition which fell from a helicopter into a wooded area. After recovering the ammunition and while on your way back to the patrol base, you encounter this obstacle which you must cross in order to accomplish your mission and ensure the safety of your men. The marked area and the area on both sides are heavily mined. All team members must cross the obstacle. There is a heavy artillery strike scheduled to impact here in approximately 12 minutes. Begin work.

Safety Factors:

1. No jumping between obstacles.
2. Do not allow rifles to be thrown.

Instructions to Rater:

1. A foul occurs when an individual or a piece of equipment touches the ground between start and finish or anything painted red.
2. The team can be penalized by:
 - a. Losing working time, or
 - b. Loss of equipment or personnel.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Pole	2	3" x 15"
Rope	1	15' length

Solution.

One end of the pole should be tied very tightly with the rope. The pole should then be stood up vertically on the other end and placed in between the big rocks at the start of the obstacle. The pole should then be lowered as slowly as possible on to the raised horizontal bar to the squads immediate front. Two of the squad's strongest members should now climb up the leaning pole using a monkey crawl (upside down, hand over hand), and then get on top of the horizontal pole that the free pole is leaning on. The rope on the top should be untied and given to the people on the ground. The second pole should now be tied and lowered onto the raised horizontal bar just as the first pole was.

6.1.12 Task Twelve, POW Escape



Soldier Briefing: You are located in a POW compound. You have been told that two of you are to be executed later today. Your only route of escape is across the moat and over the wall. Movement of the water will sound an alarm. The red bar along the front wall is electrically charged. You have a ladder and a rope to help you accomplish the task. Any loose equipment found in the area may be used. Loud talking while on the front wall will be heard by the guards. Friendly planes have consistently bombed the area at this time for the past four days. You plan to take advantage of the confusion to escape. If the alarm is sounded, your only chance is to run through the moat and get over the wall as quickly as possible. The planes are

approaching now. Weapons will not be used. Begin work.

Safety Factors: Do not allow the Soldier to attempt to jump pit at any time, especially when the alarm is sounded and do not allow Soldiers to throw the loose section of iron pipe.

Instructions to Rater:

1. General: Rifles will not be used in this task. Do not allow Soldiers to jump pit at any time. Do not allow Soldiers to throw the loose section of iron pipe.
2. A foul occurs when:
 - a. Any of the red areas are touched.
 - b. Any of the wire or area inside the pit is touched. Sound alarm. Soldiers must cross the wall and return to the starting point.
 - c. Any Soldiers talks after reaching the wall.
3. If any fouls are committed it is suggested that the instructor penalize the team according to the progress they are making and the time left for completing the task. These penalties may consist of sending members back to the beginning, putting the equipment back at the beginning, etc.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Ladder	1	9' length
Rope	1	30' length
Pipe	1	2.5" x 42"
Whistle	1	General - MP

NOTE: Circumference of the pipe must permit it to fit inside the pipe used as part of the enclosure. Before the task begins, place the pipe on the far side of the compound wall where the Soldiers cannot see it when they begin the task.

Solution.

1. The rope should be tied to the last rung on either end of the ladder (leaving about 25 feet of the rope free). The ladder should now be laid down flat on the gray stand at the start of the obstacle with the tied end of the ladder closest to the gray and red compound wall. The ladder should now

be pushed toward that compound wall until the end of the ladder is about a yard away from the wall.

2. At least 4 heavy individuals should stand on the end of the ladder that remains on the gray stand at the start of the obstacle. One light, tall individual should walk across the ladder and step up on to the compound wall.
3. After this person finds the 42" long pipe the ladder should be raised so that the person on the wall can wedge the 42" pipe underneath the first rung and on top of the second rung, now the ladder and pipe should be adjusted to allow the wedged pipe and ladder to rest on the protruding board on the compound wall.
4. Now the other squad members should go to the wall and use the person stooping down in order to pull themselves over the wall. Once squad members get on the pipe on the other side of the obstacle they should monkey crawl across (upside down, feet hooked moving hand over hand) to the vertical pole and slide until about 2 feet away from the ground and then push off to avoid the moat.

6.1.13 Task Thirteen, The Tubes



Soldier Briefing: You are members of a detail carrying ammunition to a position to your front. En route to your destination you encounter this concrete abutment. You decide to continue on toward the mortar position by moving your patrol through these culverts. You may use anything you find in the immediate area to assist you in your mission. You must negotiate this obstacle taking this box of ammunition and anything you use with you. All team members must pass through the obstacle and proceed to the mortar position beyond. No jumping is allowed. Begin work.

Safety Factors:

1. Ensure that planks are firmly seated before Soldiers pass over them.
2. Do not allow Soldiers to jump from any part of the task at any time.

Instructions to Rater:

1. Soldiers are not allowed to jump on this task.
2. Soldiers may not touch the area inside the pit or red areas.
3. Task is accomplished when all team members, weapons, ammunition and planks are on the ground past the last post.
4. Ensure planks are firmly seated before Soldiers pass over them.
5. A foul may be assessed by sending the lead man back to the beginning of the task, or by assessing a time penalty.

Equipment: This task should have the following equipment:

TYPE	QTY	DIMENSIONS
Wood Plank	1	2" x 8" x 8'8"
Wood Plank	1	2" x 8" x 6'2"
81mm Ammo Box (Inert)	1	Approx. 40 lbs.

Solution.

1. The 2nd strongest member of the squad should go into either the left tube or the right tube while carrying the longest board. This board should be pushed out of the tube until it bridges the distance to the first pole. This person should now walk to the first pole and slide the short board over to the second pole leaving about 8 inches of this board extending towards the pole.
2. Now the person standing on the short board should sit on top of the board and the first pole. While another team member pushes the long board out, the person sitting on the short board should reach down and place the long board on top of the protruding end of the short board.
3. Now one half of the squad should walk to the short board letting the person carrying the ammo be the second man to walk out. The part of the squad on the short board should now move the long board to bridge the second and third poles. This half of the squad should now exit the obstacle, leaving one strong man on the short board to put the long board back to bridge the distance between the tube and the first pole.
4. Now the rest of the squad should walk over to the short board and repeat what the first half of the squad did. The last person off of the obstacle brings the short board with him. The rest of the squad then removes the long board.

7. Radio Procedures

7.1 Requesting a Hot Status

RANGE: RANGE OPERATIONS, THIS IS LUNDY LRC, OVER

RANGE OPERATIONS: LUNDY LRC, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS LUNDY LRC. REQUEST A HOT TIME, OVER.

RANGE OPERATIONS: LUNDY LRC, THIS IS RANGE OPERATIONS, DO YOU PHYSICALLY HAVE ON SITE REQUIRED MEDICAL SUPPORT WITH EQUIPMENT, RANGE SAFETY SOP BINDER, RED RANGE FLAG FLYING AND GATE GUARD WITH COMMO, OVER.

RANGE: RANGE OPERATIONS, THIS IS LUNDY LRC, YES, OVER.

RANGE OPERATIONS: LUNDY LRC, THIS IS RANGE OPERATIONS. I GIVE YOU A HOT TIME OF _____ HOURS. MY INITIALS ARE _____. CONFIRM HOT TIME AND SEND YOUR RANGE OIC INITIALS, OVER.

RANGE: RANGE OPERATIONS, THIS IS LUNDY LRC. I CONFIRM HOT TIME OF _____. RANGE OIC INITIALS ARE _____, OVER.

RANGE OPERATIONS: LUNDY LRC, THIS IS RANGE OPERATIONS. CONDUCT RADIO CHECKS WITH RANGE OPERATIONS HOURLY AT THE TOP OF THE HOUR, YOUR FIRST RADIO CHECK IS DUE AT _____. RANGE OPERATIONS OUT.

7.2 Requesting a Cold Status

RANGE: RANGE OPERATIONS, THIS IS LUNDY LRC, OVER.

RANGE OPERATIONS: LUNDY LRC, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS LUNDYLRC. REQUEST A COLD TIME, OVER.

RANGE OPERATIONS: LUNDY LRC, THIS IS RANGE OPERATIONS. I GIVE YOU A COLD TIME OF _____. MY INITIALS ARE _____. CONFIRM COLD TIME, SEND YOU OIC INITIALS AND THE NUMBER OF PERSONNEL TRAINED, OVER.

RANGE: RANGE OPERATIONS, THIS IS LUNDY LRC. I CONFIRM COLD TIME OF _____. OIC INITIALS ARE _____. WITH _____ (#) PERSONNEL TRAINED, OVER.

RANGE OPERATIONS: LUNDY LRC, THIS IS RANGE OPERATIONS, ROGER, OUT.

7.3 Change of OIC / RSO.

RANGE: RANGE OPERATIONS, THIS IS LUNDY LRC, OVER.

RANGE OPERATIONS: LUNDY LRC, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS LUNDYLRC. REQUEST A CHANGE OF OIC, OVER.

RANGE OPERATIONS: LUNDY LRC, THIS IS RANGE OPERATIONS. SEND THE LAST NAME AND THE INITIALS OF THE NEW OIC (or RSO), WITH YOUR INITIALS, OVER.

RANGE: RANGE OPERATIONS, THIS IS LUNDY LRC. NEW OIC LAST NAME IS _____, MY INITIALS ARE _____, OVER.

RANGE OPERATIONS: LUNDY LRC, THIS IS RANGE OPERATIONS. ROGER, OUT.

7.4 Requesting a Radio Check (Hourly at the Top of the Hour)

RANGE: RANGE OPERATIONS, THIS IS LUNDY LRC. RADIO CHECK, OVER.

RANGE OPERATIONS: LUNDY LRC, THIS IS RANGE OPERATIONS, ROGER RADIO CHECK, OUT.

8. Range Safety Brief

This general safety brief is not all inclusive and requires the OIC to include commander's guidance, and/or any unit specific or other situational dependent areas of concern.

1. Identify the Officer in Charge (OIC) and the Safety Officer (SO) at a minimum.
2. Identify the Location of:
 - a) Obstacle Instructors
 - b) Medic & the Evacuation Vehicle
 - c) Others as required
3. Prescribed uniforms and personal protection requirements (helmet and leather gloves as applicable).
4. Locations: Break/Smoking Areas, latrines, mess area, parking and bleacher site. Also include any off limit or restricted areas.
5. Procedures for Medical Emergency.
6. Severe weather plan, environmental requirements, issues and concerns.
7. ALL VEHICLES on this Range will have a GROUND GUIDE.
8. Movement on obstacles as directed by the Obstacle instructor.
9. NO pushing, NO shoving or horseplay at ANY time.
10. If you observe ANY UNSAFE situation, call & indicate "CEASE TRAINING" IMMEDIATELY.
11. The course should not be used in wet weather if it makes the obstacles slippery.
12. Obstacle instructors should inspect the obstacles for safety hazards (protruding nails, unsafe landing pits, etc.) and ensure all jewelry is removed prior to negotiating obstacles.
13. Muscular strength/muscle failure physical training should NOT be conducted within 12 hours prior to the Obstacle course negotiation of obstacles.

NOTE: Insert appropriate risk management worksheet hazards and control measures identified as applicable as required and/or applicable.

9. Risk Management & Mitigation

OIC will review, add and update DA Form 2977, Deliberate Risk Assessment Worksheet.

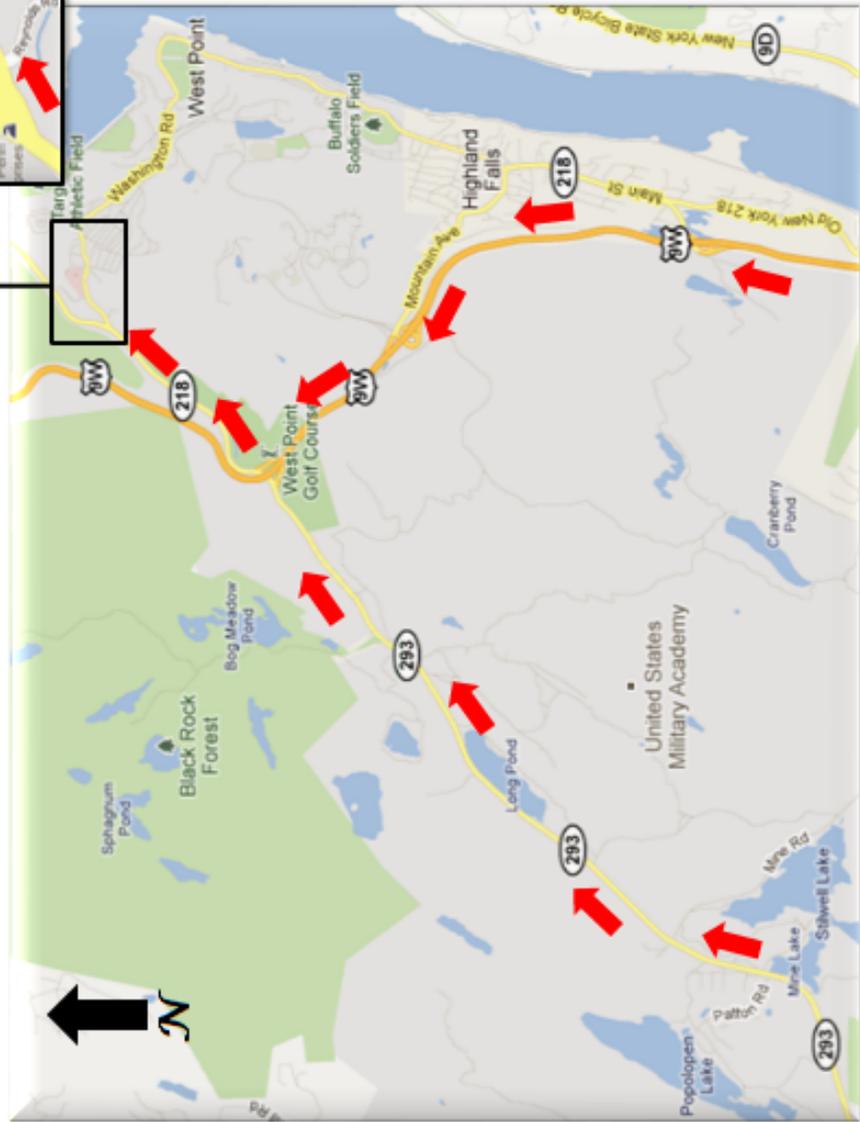
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10. Reference Information, Reports & Forms

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TAB	NAME
10A	Local Strip Map to Keller Army Community Hospital
10B	Local Strip Map to Saint Luke's Cornwall Community Hospital
10C	Open

**LOCAL STRIP MAP TO
KELLER ARMY COMMUNITY HOSPITAL
Phone #: (845) 938-4004**



DIRECTIONS

North on Route 293 or 9W.

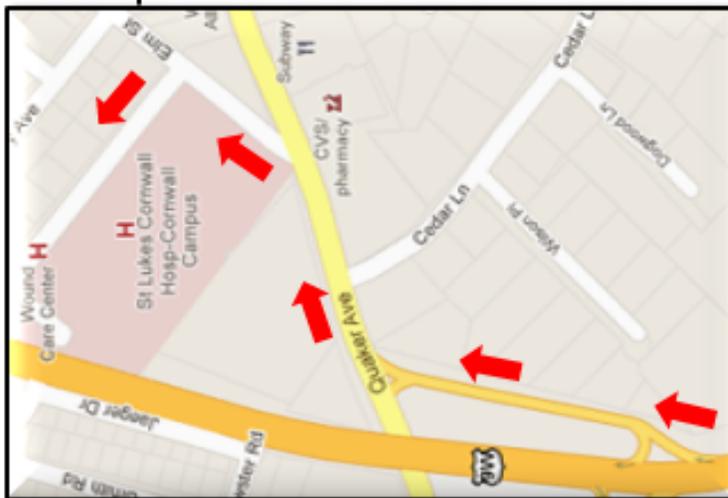
Exit onto Route 218 N
(approx. 1.2 miles to
Washington Road Gate).

Enter Installation via
Washington Road Gate.

Keller Army Community
Hospital is on the left
(approx. 3/10 miles from
Washington Road Gate).

Tab 10A – Strip Map – Keller Army Community Hospital

**LOCAL STRIP MAP TO
ST. LUKES WOUND CARE CENTER
&
ST. LUKES CORNWALL HOSPITAL
Phone #: (845) 458-4512**



DIRECTIONS

- North on Route 293 or 9W.
- Continue North on 9W to Cornwall.
- Exit 9W onto Quaker Ave exit.
- Turn left onto Elm Street.

Tab 10B – Strip Map to St. Luke’s Newburgh Hospital