

FIRING/NONFIRING DATA

For use of this form see USAIC Regulation 350-19; the proponent agency is DPTMS

TO: Chief,
Range Division,
Directorate of Plans, Training, Mobilization and Security
Fort Benning, GA 31905

Date: 28 August 2013
Range: Young
Title: Young Night Infiltration Course
Problem No:

LOG# 8-7-13

THRU: 3rd Squadron, 16th Cavalry Regiment
316th Cavalry Brigade
10290 316th Cavalry RD, BLDG 5143
Fort Benning, GA 31905

FROM: A Trp, 3-16 Cavalry
316th Cavalry Brigade
BLDG 5210, 69th Armored Regiment Rd.
Fort Benning, GA 31905

SECTION I, TYPE OF TRAINING

a. Live Fire b. Non-live Fire CP/Controller Coordinates: GA 0297 9367

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
GA 03119366	Parachute Flare, White	L312	N/A
GA 03119366	Simulator, Proj Grnd Burst M1 15A2 Simulator, Grenade M1 16A1	L594 L601	

SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
Gun #1	M240B	7.62mm Overhead Fire Ball and Tracer Link A151	2636 mils	2636 mils
Gun #2	M240B	Same as Gun #1	2668 mils	2668 mils
Gun #3	M240B	Same as Gun #1	2646 mils	2646 mils

SECTION IV, LIVE FIRE EXERCISES Attach the following:

SECTION V, NON-LIVE FIRE TRAINING

<input checked="" type="checkbox"/> Scenario of training to be conducted:	Training area(s) to be occupied:
<input checked="" type="checkbox"/> Sketch of area:	
<input checked="" type="checkbox"/> Risk Assessment:	
<input type="checkbox"/> Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:	
<input type="checkbox"/> Scenario of training to be conducted:	
<input type="checkbox"/> Sketch of area(s) to be occupied:	
<input type="checkbox"/> Risk Assessment:	

Name/rank of requesting officer:
Zamora, Terrance A. SFC.

Name/rank of Major Unit S3/Commander:
James E. Hayes, LTC, AR, Commanding

Zamora

James E. Hayes

SECTION VI, FOR RANGE DIVISION USE

DATE: **29 Aug 13**

TO: 3rd Squadron, 16th Cavalry Regiment
316th Cavalry Brigade
10290 316th Cavalry RD, BLDG 5143
Fort Benning, GA 31905

FROM: Range Division,
Directorate of Plans, Training,
Mobilization and Security
Fort Benning, GA 31905

a. Roadblocks to be closed: **M1, 2, 3, 5, 7, 9, 10**

b. Road(s) to be closed/road barrier locations:

c. Remarks:

d. This approval expires: **INDEF**

Chief, Range Division
Directorate of Plans, Training, Mobilization and Security

Ray S. A.



DEPARTMENT OF THE ARMY
B COMPANY, 3RD BATTALION, 81ST ARMOR REGIMENT
18906 13TH AR REGT RD BLDG 5119
FORT BENNING, GA 31906

REPLY TO
ATTENTION OF:

ATZK-BAG-B

*Approved
Reviewed
Caldwell
3 July 12*

2 July 2012

MEMORANDUM FOR RECORD

SUBJECT: Use of Pyrotechnics and Simulators on Young Range

1. Due to the inoperability of the propane-gas pits used to generate a simulated explosion on Young Range, B Co, 3-81 AR will be using hand grenade and artillery simulators to replicate the noise and percussion of a battlefield environment.
2. Only B Co, 3-81 AR Cadre in possession of a current Demolitions Qualification Card are authorized to employ simulated munitions on Young Range. The 3-81 AR Commander will personally inspect and approve the method of employment for all pyrotechnics used on the Night Infiltration Course.
3. Cadre on Young Range will ensure that both the activation and detonation of all simulated pyrotechnics are more than 30 meters from any soldier negotiating the Night Infiltration Course by employing the simulators only in specifically designated areas.
4. All Cadre employing simulator munitions will wear eye protection, hearing protection, gloves, Kevlar helmet, and IBA.
5. IAW MCoE Regulation 350-19, in the event of a simulator misfire Cadre will continue with all operations during the iteration in progress. Upon completion of that iteration, the Range OIC will stop all range activities and notify Range Control. Range safeties will then call EOD to clear the unexploded simulator. Once the range has been cleared by EOD personnel, range activities will resume as scheduled.
6. Reference for this action is LOG # 8-10-11. Point of contact for this memorandum is the undersigned at (706) 626-7124.

RYAN LEVERE
CPT, EN
Commanding



Young Range

No one is allowed in the 30m radius area except the thrower. Only qualified personnel using current required protection will use the L594 or L601. The OIC/RSO in the tower will notify the trench to begin throwing the simulators after Soldiers have moved beyond the first wire obstacle. In the event of a dud or malfunction the Area will be secured after that iteration is complete and Range Control will be notified of the dud and request EOD support. Another iteration will not start until EOD disposes of the DUD.

TRANSMITTAL, ACTION AND CONTROL

For use of this form see MCOE Memo 25-52; the proponent is SGS

1. SGS LOG:	2. IN SGS:	3. OUT SGS:	4. DATE PREPARED: 25 July 2011
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5. SUBJECT:
194th Armored Brigade Range Packet for Young Night Infiltration Course

6. ACTION OFFICER/OFFICE SYMBOL/PHONE NUMBER Henry Delacruz, MAJ, 3-81 AR BN XO, (706) 626-5505/6	7. DIRECTOR'S/COMMANDER'S SIGNATURE
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SIGNATURE
 APPROVAL
 INFORMATION
 SGS
 DEP CofS
 Garrison CSM
 USAIS CSM
 USAARMS CSM
 MCOE CSM
 CDID
 GC
 CofS
 DCG
 Comdt, IN School
 Comdt, AR School
 CG

1. PURPOSE: To obtain Armor School Commandant's approval for 194th AR Night Infiltration SOP and CRM worksheet.

2. RECOMMENDATION: Recommend Approval *KSM*

3. DISCUSSION:

- a. References:
- (a.) Army Regulation AR 385-63, Range Safety, 19 May 2003
 - (b.) DA Pamphlet 385-63, Range Safety, 4 Aug 2009
 - (c.) TRADOC Regulation 385-2, TRADOC Safety Program, 23 Jan 2009
 - (d.) MCoE Regulation 350-19
 - (e.) Memorandum, HQ, MCoE IMSE-BEN-SO(385), 20 July 2010, Subject Composite Risk Management Policy
- b. Young Range is the Night Infiltration Course that will be used by the 194th Armored Brigade training units.
- c. Risk Management factors were considered in the development of the SOP and composite risk management worksheet. The residual risk level is marked as HIGH
- e. Enclosures are as follows: Composite Risk Management Worksheet, 194th Young NIC SOP, firing/non-firing data, , Map of SDZs

*POC
Tim Pyenon
626-5513*

*Thunderbolt 6,
Sir, Safety office has reviewed. My NIC team is professional & well trained. No issues with the NEC back at KNOX. We will re-certify and rehearse before first teach. Recommend Approval. Respectfully, LTC Willie Nuckols
CDR, 3-81 AR*

8. COORDINATION/APPROVAL

S:

OFFICE	ACTION	NAME AND DATE	OFFICE	ACTION	NAME AND DATE
<i>ASST</i>	<i>Concur</i>	<i>K. Edens 8 Aug 11</i>			

STAFF REMARKS: (Command Group Use Only)	APPROVAL AUTHORITY APPROVED: DISAPPROVED: NOTED:
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DEPARTMENT OF THE ARMY
HEADQUARTERS, 3RD BATTALION, 81ST ARMOR REGIMENT
7148 2ND CAVALRY REGIMENT STREET BLDG 4322
FORT BENNING, GA 31905

ATZK-BAG

01 August 2012

MEMORANDUM FOR RECORD

SUBJECT: Young Range Night Infiltration Course Standard Operating Procedure

1. PURPOSE: This SOP provides Young Range personnel with guidance to safely and effectively conduct the Night Infiltration Course at Young Range. This SOP does not supersede or take the place of applicable regulations or guidance from higher headquarters.

2. REFERENCES:

- A. AR 385-63 Range Safety
- B. MCOE Range and Terrain Regulation 350-19
- C. DA Form 2408-4 Equipment Log record Fire
- D. DA Form 7566 Composite Risk Management Worksheet
- E. FB Form 51-R Range Safety Operations Checklists
- F. FB Form 210-4-3-R Firing/Non-firing Data
- G. Request Summary
- H. FM 21-75 Combat Skills of the Soldier
- I. FM 3-22.68 Crew-Served Machine-Guns, 5.56-mm and 7.62-mm
- J. TM 9-1005-313-10 Operators Manual for Machine Gun, 7.62mm, M240
- K. MCOE Regulation 700-5 Operation of the MCOE Weapons Pool
- L. MCOE Regulation 710-3 Ammunition Supply Procedures
- M. MCOE Regulation 210-4
- N. TSP BT071028, Move Under Direct Fire 3
- O. TM 9-1370-207-10 and FM 3-23.30

3. RANGE DUTIES AND ORGANIZATION

A. Duty Positions

- | | |
|-------------------------|--|
| 1) Range OIC | 1 |
| 2) Range Safety Officer | 1 |
| 3) Trench NCO | 1 |
| 4) Machine Gunners | 3 |
| 5) Medics | 2 (minimum coordinated by training unit) |
| 6) CCP 1 NCO | 1 (using unit) |
| 7) Gate Guards | 2 (using unit) |
| 8) CDR , XO or 1SG | 1 (using unit) |
| 9) Drill Sergeant | 8 (using unit) |

B. Description of Duties

- 1) Range OIC (must be SFC or higher appointed on unit orders), adheres to MCOE Regulation 350-19

- a) Has Valid FB range safety card in his possession.
- b) Controls the raising and lowering of the zeroing targets
- c) Maintains and updates Range book.
- d) Starts the Daily Log DA Form 1594.
- e) Ensures that controlling tower is open and that there is a key on the controlling panel.
- f) Turns on the infrared lights for the course.
- g) Ensures all BN and Co Policy and Safety letters are posted in Range shack.
- h) Establishes and maintains communications with Range Control.
- i) Ensures that only ammunition cleared for overhead fire (A151) is used. If there is any issue with the ammunition, calls the ammunition operations office at (706) 544-6700
- j) Ensures that the hot range indicator light at the entrance to the range is on while the Range is firing.
- k) Ensures that the PA system, and/or the bullhorn are operational.
- l) Responsible for overall supervision on Young Range.
- m) Ensures all personnel read and understand the CRMWS, SOP, TSP, and applicable range and safety regulations.
- n) Ensures that all SSGs assigned to Young Range are currently range safety certified to perform Range Safety Officer (RSO) duties.
- o) Ensures the RSO and Gunners are currently qualified on the overhead fire weapon.
- p) Conducts range cadre certification, and ensures proficiency training is conducted when available, i.e. Engagement Skills Trainer, etc.
- q) Supervises certification of new weapon systems.
- r) Ensures pre-range coordination has been made in accordance with 3-81AR SOP.
- s) Adjusts start times constantly based on season/sunset time.
- t) Ensures Range Orientation briefing is conducted with all using unit cadre prior to range. The briefing will cover range sequence, safety, and a walkthrough (Appendix I).
- u) Coordinates the efforts of the RSO, Trench NCO, and Machine Gunners.
- v) Inspects medics and FLA when they arrive to ensure proper equipment and communications.
- w) Ensures 100% accountability of Range, Training Unit, and any other personnel on the range at all times.

- x) Logs gate check prior to course execution.
- y) Ensures each weapon has been properly zeroed prior to each iteration.
- z) Observes tracers down range for obvious high or low round strike concerns.
- aa) Is the final authority for giving "Gun Line Clear."
- bb) After receiving "Guns Clear" from RSO, the OIC will visually check the gun towers for personnel; if the gun towers are empty the OIC will state "Gun Towers Clear"
- cc) Handles any training unit discrepancies on behalf of B Co, 3-81 AR.
- dd) Takes charge of all emergencies and evacuations (Medics have final say).
- ee) Controls trench line, start trench, and machine guns during firing.
- ff) Operates flood lights during firing.
- gg) Controls initiations of demolition pits during firing.
- hh) Ensures each weapon has had a barrel change and has been properly zeroed prior to the start of each iteration.
- ii) Ensures that no more than 5 personnel (OIC, CDR, 1SG, XO or RSO) are in the tower control room at any time.
- jj) Observes tracers down range for obvious high or low round strike concerns.
- kk) Corrects, if necessary, crawling techniques of Soldiers as they negotiate the course.
- ll) Turns on flood lights after iteration ends to ensure that all Soldiers are off of the course and that no sensitive items are left behind.
- mm) Will use NVDs to monitor movement during conduct of the course.
- nn) Will ensure an accurate count of rounds fired per weapon, barrel, and mount is provided to the Weapons Pool.
- oo) Gives VIP/Visitor briefing (Appendix E) when informed by gate guards that a VIP wants entrance to the range, and ensures accountability of VIPs during conduct of range.
- pp) Initiates initial OPREP upon incident
- qq) Initiates the test firing and firing of the Demo pits
- rr) Turns on the white lights and changes the green light to red for cease fire.
- ss) Monitors the gas detection system.

- 2) Range Safety Officer (must be SSG or higher, appointed on unit orders), adheres to MCOE Regulation 210-4
 - a) Has valid FB range safety card in his possession.
 - b) Conducts Cadre Safety brief.
 - c) Adheres to MCOE Regulation 350-19, Para 2-8.
 - d) Supervises handheld radio check.
 - e) Monitors safe operation of the range and immediately corrects any safety violations.
 - f) Ensures required night vision devices (NVDs) are on hand and serviceable.
 - g) Briefs the Soldiers on safety and conduct of the range.
 - h) Verifies that all red/green lights are operational at each MG position, in the towers, and in the start trench.
 - i) Verifies that the light on top of the pole at the entrance to the range is on while machine guns are firing.
 - j) Ensures that no more than 5 personnel are on second level of the tower at a time.
 - k) Ensures all radios are functioning properly.
 - l) Prior to firing, inspects MG mounts for evidence of vandalism or tampering.
 - m) Conducts hands-on safety checks on the mounting of the M240B; checks mounting procedures in accordance with this SOP, Appendix A of this SOP, and as outlined in the gun tower book to include verification of the certified mounting data.
 - n) Ensures that guns are locked properly in the TACOM device and secures each padlock key. Mounting procedures are in Appendix A.
 - o) Briefs all gunners on all safety procedures prior to going hot as per Appendix B.
 - p) Ensures all gunners know immediate action procedures as per FM 3-22.68 and TM 9-1005-313-10.
 - q) Ensures that the guns are zeroed above the center line of the target.
 - r) Ensures that the guns are re-zeroed after each barrel change.
 - s) Ensures that no one disturbs the zero of any gun once it is established.
 - t) Assists gunners if a problem arises with any gun or mount.
 - u) Visually and physically clear each gun (utilizing a rod) prior to giving the report of "Guns clear."

- v) Personally inspects all reports of wooden witness panel or target lifter damage. Ensures all Trench NCOs, or any personnel checking the targets, know to look for any damage to the witness panels. Will cease fire immediately on any gun that fires into the witness panels, will inform the company chain of command, range control, and launch an investigation. That gun and tower will not be used until the cause of the low bullets strikes is determined.
- w) Ensures that Ice Sheets and dump tanks are emplaced in Assembly Area where soldiers will be located. Briefs the using unit chain of command on their location and purpose so that they take full advantage of them. Also ensures that Drill Sergeants have Ice sheets on hand prior to coming to the range. Ice sheets and dump tanks will be used from 01 APR - 01 OCT of each year.
- x) Ensures certification of new weapon systems is conducted by risk approval authority.
- y) Once he receives a "Gun Towers Clear" from the OIC, will issue a "Gun Line Clear" to the Trench NCO signaling him to put up targets or check targets.

3) Trench NCO

- a) Clears the detonation area prior to employing the L594 Ground Burst Simulator, by ensuring all soldiers are at least 35m from the detonation area.
- b) Supervises, controls, and counts personnel entering the start trench.
- c) Maintains control of personnel who refuse to negotiate the course.
- d) Ensures that all personnel operating in and around the trench are wearing Improved Outer Tactical Vest (IOTV) or Interceptor Body Armor (IBA), Advanced Combat Helmet (ACH) with serviceable chin strap, Eye Protection, and Hearing Protection.
- e) Ensures all trainees are evenly spaced out along the trench before training begins.
- f) Communicates Soldier count and "trench clear" signal to the OIC.
- g) Inspects front and back of the wooden witness panel wall for round impact after each iteration of the zeroing process. If impacts of rounds are identified on the wall, the Trench NCO will check the target lifting mechanisms for damage and report all damage to the OIC. No more shooting will be conducted from that tower until the reason for the impact can be determined. All Trench NCOs will understand that the wooden witness panel walls are present to indicate possible issues with the weapon system, not to protect the target lifting mechanisms.
- h) Verifies and provides feedback during the zeroing procedures. Marks each impact of rounds on the zero targets.
- i) Initiates flares under the direction of the OIC, with proper PPE

4) CCP 1 NCO

- a) Combat Life Saver must be present and must possess a current CLS certification.

- b) Checks equipment and conducts a head count of the Soldiers at CCP 1; verifies that the count is the same count given by the RSO.
- c) The CCP 1 NCO makes an assessment of any injured Soldier and escorts the Soldier, along with one Drill Sergeant, to the beginning of the trail where the medic will meet them. He provides first aid to Soldiers as required.
- d) Briefs and escorts Drill Sergeant to the start trench.
- e) Assists Trench NCO with his duties.

5) Machine Gunners

- a) Will zero and meet the day qualification standards outlined in FM 3-22.68 and night qualification standards outlined in ST 23-AIMSS every six months. Machine Gunners will complete the cadre certification (Appendix F) prior to operating the M240B on the range.
- b) Pick up the guns from the weapons pool (ALL range cadre do this).
- c) Set up M240Bs on each gun position and take them down upon completion of training.
- d) Mount M240B utilizing the mounting procedures in Appendix A of the gun tower book, making sure to use the weapon certification data. Verifies that the proper mount and M240B are mounted in the proper tower in accordance with the certified mounting data sheet.
- e) Adjust the barrel restriction plate after zeroing to within 1/4 inch of underside of barrel. Ensure barrel is not resting on the restriction plate.
- f) Assist in setting up communications equipment.
- g) Under the direct supervision of the RSO, zero the machine gun above the center horizontal controlled fire line of the target. **All weapons will be zeroed when a barrel change is conducted and before each iteration.**
- h) If immediate action fails, perform remedial action. Gunners will follow the procedures for a hot weapon when performing remedial action. If nothing is ejected and the weapon is hot (200 or more rounds fired in 2 minutes), do not open the cover, place the weapon on safe and notify the RSO. Wait at least 15 minutes, and then clear the weapon **between iterations. No barrels will be removed while personnel are downrange.**
- i) Note: As per TM 9-1005-313-10, page 2-23, Remedial action step 11 states to notify unit maintenance for repair. Gunner will notify RSO instead and allow RSO to determine further action.
- j) Gunners will wear Improved Outer Tactical Vest (IOTV) or Interceptor Body Armor (IBA), Advanced Combat Helmet (ACH), clear eye protection, gloves, and hearing protection.
- k) When picking up weapons from the Weapons Pool, they will ask if any of the original barrels, M240Bs, or mounts have been changed. If the answer is "no," they will confirm all components are certified by checking the gun tower books before leaving the Weapons Pool. If the answer is "yes," they will inform the OIC, or RSO of the need to certify the new component/system.

- l) Will ensure they accurately record rounds fired per barrel, M240B, and mount in the daily log and provide that information to the Weapons Pool at turn in.
 - m) Will ensure they accurately record rounds fired per barrel, M240B, and mount in the daily log and provide that information to the Weapons Pool at turn in.
 - n) When picking up weapons from the Weapons Pool, they will ask if any of the original barrels, M240Bs, or mounts have been changed. If the answer is "no," they will confirm all components are certified by checking the gun tower books before leaving the Weapons Pool. If the answer is "yes," they will inform the OIC, or RSO of the need to certify the new component/system.
 - o) Ensures that each gun fires no more than 400 rounds per iteration
 - p) Understand and are capable of performing immediate action on the M240B.
 - q) Change barrels upon completion of each platoon iteration.
 - r) Ensures that machine guns are oiled and mechanically zeroed prior to live firing.
 - s) Remains in gun towers and monitors the radio.
 - t) Monitors the red/green light on the towers to initiate and cease fire.
- 6) Medics
- a) Medics will be on the range no later than 30 minutes prior to firing.
 - b) Medics will have an FLA (PMCS'dFqualify and fueled) with all associated medical equipment on site.
 - c) Prior to arriving on Young Range, medics will inspect the MEDEVAC LZ (across from Malone 26) for obstructions and usability and also have the 10 digit MGRS location.
 - d) Ensure FLA is dispatched and fueled.
 - e) Responsible for placing backboard and other required medical equipment at the base of the tower.
 - f) Identify injuries and coordinate any MEDEVAC.
 - g) OIC will conduct and supervise an injured Soldier treatment and recovery rehearsal before live fire begins.
- 7) Gate Guards
- a) Two Soldiers from the training unit will perform gate guard duty. Soldiers will be briefed by the OIC and will be in position 30 minutes prior to the first training iteration.
 - b) Their main purpose is to ensure no personnel, regardless of rank or status, enter the range without approval by the OIC and an escort. This is a crucial aspect of maintaining accountability of all personnel on the range.

- c) Hold VIPs/Visitors at gate until the OIC can escort them and give them a Range familiarization brief. The exceptions to this procedure are annotated in Appendix D. If any of these excepted elements come to the range, the gate guards will inform the OIC of the number of personnel and vehicles entering the range.
 - d) Relay all count updates to the OIC for annotation on the accountability sheet.
- 8) Using Unit Requirements.
- a) All using unit cadre must have the Range Orientation briefing prior to the start of the range (Appendix I and H).
 - b) One NCO is required to control and account for Soldiers at the entrance to the trail.
 - c) Two Drill Sergeants will assist the trench NCO with controlling Soldiers and trench safety.
 - d) At least two Drill Sergeants (more if Young Range OIC deems necessary) will negotiate the course with each iteration. Their purpose is not to finish the course first; it is to assist and motivate trainees to complete the course.
 - e) Unit will ensure that each Soldier negotiating the Night Infiltration Course (NIC) has been properly trained on individual movement techniques and that each has the following equipment:
 1. Improved Outer Tactical Vest (IOTV) or Interceptor Body Armor IBA
 2. Advanced Combat Helmet (ACH)
 3. Knee and elbow pads
 4. Ear and eye protection
 5. Weapon
 6. Approved gloves
 - f) Two Drill Sergeants will act as combat lifesavers and assist behind the machine gun tower in controlling Soldiers who have completed the course.
 - g) The using unit Commander, First Sergeant or XO will be present during firing; this is a TSP requirement.**
 - h) Five detail Soldiers are required during training; two posted at the main gate during firing to control traffic onto Young range, two for target detail, and one to assist the unit NCO at the entrance to the trail in getting the accountability cards to the OIC at the base of the tower.
 - i) The Duty Platoon is required at the end of training for brass and ammunition collecting and range police call.
 - j) All Soldiers negotiating Young Range Night Infiltration Course must complete BTT 2 prior to negotiating the night infiltration course.
 - k) Using unit is required to provide 1x Stretcher, 1x CLS bag, 1x Ice Chest w/ ice sheets, and 1x Arm Immersion Kit.
- 9) Early Man (arrival time determined by RSO)

- a) Opens Range shack, tower, and latrines.
- b) Signs for ammunition from the ammunition platoon and locks it in the ammunition point. Ensures correct type of ammunition is delivered (DODAC A151). If there is any issue with the ammunition, calls the ammunition operations office at (706) 544-6700.
- c) Checks range shack, machine gun positions, tower, ammunition point, and latrine for signs of damage, tampering, or vandalism.

4. GENERAL RANGE OPERATIONS

A. Pre-Range Coordination and Requirements

- 1) The main purpose of pre-range coordination is to ensure that the using unit understands range specific requirements, understands that one of the top three must be on the range at all times, and has properly requested ammunition and medical support.
- 2) The using unit must conduct pre-range coordination with Young Range cadre either in person or via telephone at least a week prior to the range.
- 3) If a using unit fails to conduct pre-range coordination, Young Range cadre will gain contact with the unit NLT three days prior to range execution.
- 4) OIC checks to ensure pre-range coordination has occurred for each unit.
- 5) OIC ensures that the range start, ammunition drop, and unit link-up times are adjusted based on the changing seasons and sunset times, and communicated to using units.
- 6) OIC ensures that the Range Orientation briefing is conducted with all using unit cadre prior to range. The briefing will cover range sequence, safety, and a walkthrough (Appendix I and H).

B. Ammunition and Pyrotechnics

- 1) Ammunition and pyrotechnics will be delivered to the range by ASP personnel. The following is a list of minimums that are needed to run the range.
 - a) A151 7.62mm machine gun overhead fire, 4800 rounds
 - b) L312 White parachute flare, 6-16 rounds
 - c) L594 Simulator projectile ground burst (are not required but will be used if delivered)

Note: L594 Simulator projectile ground burst will be utilized by 3-81 cadre only. Cadre must be validated by their Battalion Commander and be FT. Benning Demolitions certified. Personnel utilizing L594 Simulator projectile ground burst will wear the proper PPE (wear Improved Outer Tactical Vest (IOTV) or Interceptor Body Armor (IBA), Advanced Combat Helmet (ACH), clear eye protection, gloves, and hearing protection. L594 Simulator projectile ground burst will be employed from inside the trench at the start of the course and will be detonated in a safe direction away from the course.

Note: Early man will ensure that only DODAC (A151) 7.62mm ammunition is delivered. If there is any issue with the ammunition, he can call the ammunition operations office at (706) 544-6700.

- 2) After separating and storing the ammunition, it will be broken down for each gun.
- 3) At the completion of training, gunners and the RSO will supervise the brass police call. The unit will conduct a brass and ammunition shakedown prior to leaving Young Range.
- 4) The expended MG ammunition will be broken down as follows:
 - a) 7.62mm brass in the wooden crates
 - b) 7.62mm links in the metal ammunition cans
 - c) Any remaining live ammunition will be separated by lot numbers
- 5) Expended and unexpended flares will be separated for turn in.
- 6) The NCO who signed for the ammunition will be responsible for turn in.

C. Machine Guns and Mounts

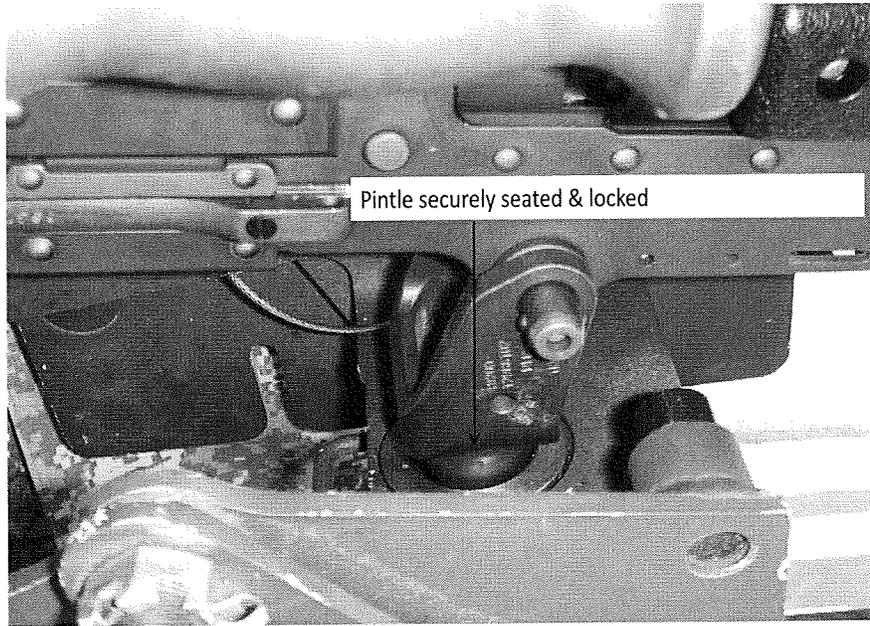
- 1) The machine guns will be picked up at the Weapons Pool to ensure arrival at Young Range no later than two hours prior to firing time. If necessary, the NCO responsible for getting the weapons will pick up the gunners prior to going to the Weapons Pool.
- 2) Instructions listed in MCOE Regulation 700-5 pertaining to the Weapons Pool will be followed. When picking up weapons from the Weapons Pool, the NCO will make sure he secures one certified mount, T&E and hardware for each tower and at least 2 certified M240Bs for each tower.
- 3) Weapon systems will be brought to Young Range.
- 4) The guns will be mounted and secured under the supervision of the senior gunner, RSO and OIC according to applicable TMs and safety regulations. Each tower has its own certified mount and mounting certification data that must be matched when installing a mount and M240B. Gunners and assistant gunners will mount the weapon system in accordance with the data. Proper mounting is verified by the gunner, assistant gunner, RSO and OIC.
- 5) The guns will be zeroed by the gunners under the direct supervision of the RSO and OIC to ensure the height of burst is above the center horizontal controlled fire line of the target. **Any time there is a barrel change, the weapon will be zeroed before the next iteration can negotiate the course.**
- 6) During firing, if any gun should malfunction and cannot be remediated, the malfunctioning gun will be replaced by the spare gun *between iterations*. Each tower will have one spare gun. The spare gun must be mounted and zeroed in accordance with this SOP. A brief description of the problem will be annotated on the gun and barrel use form and turned in with the guns to the Weapons Pool.

- 7) Each machine gun and its barrel set have a maximum use stipulation. It is essential that firing data be accurately recorded. The maximum life for each gun is 80,000 rounds. Each barrel is 10,000 rounds. The Weapons Pool keeps accountability for the machine guns and barrels used.
- 8) At the completion of training, the guns will be transported to the Weapons Pool and stored overnight. On the next duty day, they will be turned into the Weapons Pool for maintenance and cleaning and a new set of weapons will be drawn for the next unit.
- 9) DA Form 2408-4 must be kept daily on the machine gun mounts. All NCOs on Young Range will update the logs to ensure each mount does not exceed 10,000 rounds of usage.
- 10) When mounts need servicing, Young Range personnel will dismount them and take them to the Weapons Pool for maintenance and/or serviceability check. The new mounts will be picked up and replaced on the platforms by Young Range personnel. The NCO getting the new mounts will coordinate for them to be inspected by Weapons Pool personnel. They must be inspected and declared safe for overhead fire prior to the next time Young Range is used. Weapons Pool personnel will provide Young range personnel with a signed and dated copy of the DA Form 2404 declaring the mounts safe for overhead fire. Mounts not previously certified by Young Range will be assigned to a tower, marked, and zeroed with an M240B IAW Appendix H. The readings from this mount will be added to the gun tower book.

5. MACHINE GUN PRE-FIRING PROCEDURES:

NOTE: These machine guns are used for overhead fire; barrels will not be interchanged between guns. Each barrel has been tagged with the serial number of its corresponding gun and labeled with a number. Modified MK64 mounts are marked for specific gun towers. The mounts will only be used on that tower as well as the weapon that has been identified for that mount.

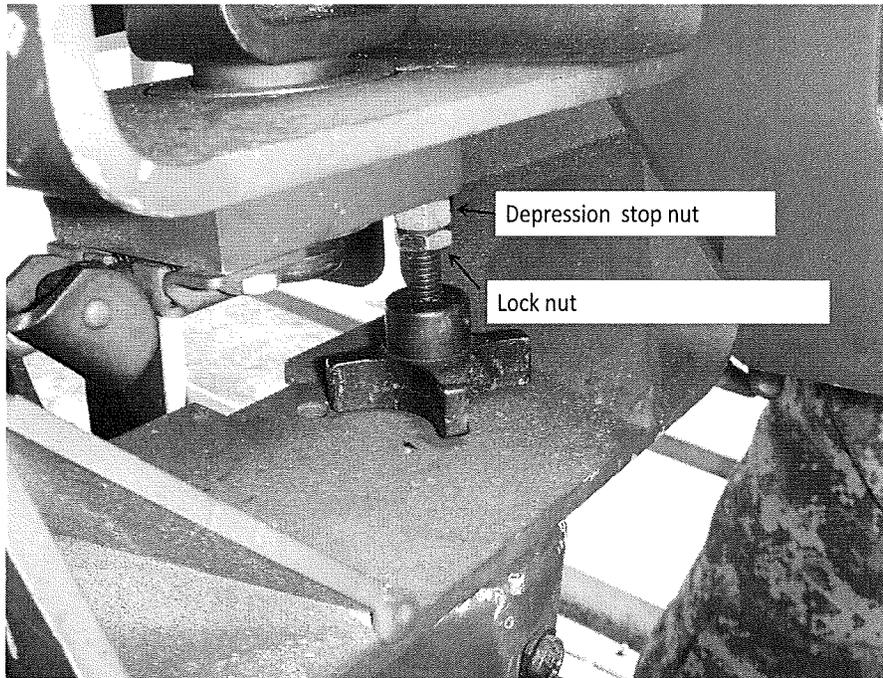
- A. Before mounting the weapon, the gunner ensures that the mount and machine gun match the weapon system for that particular tower as listed in the certified mounting sheet in the tower gun book.
- B. Prior to mounting the weapon, the gunner ensures that the mount is properly secured with a hex nut and cotter pin.
- C. Gunner will inspect the mount for evidence of tampering or vandalism.
- D. When mounting the weapon, the gunner ensures:
 - 1) Ensure pintle is securely seated in MK 64 mount.



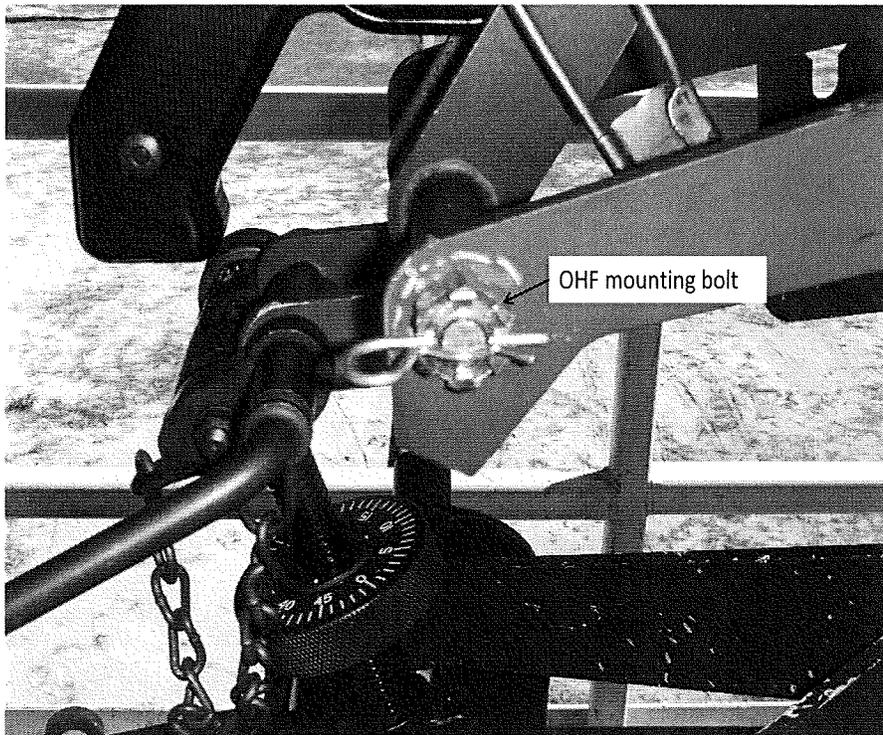
- 2) Check to ensure padlock is locked and correctly routed through hole on top of M240B (sling attaching point).



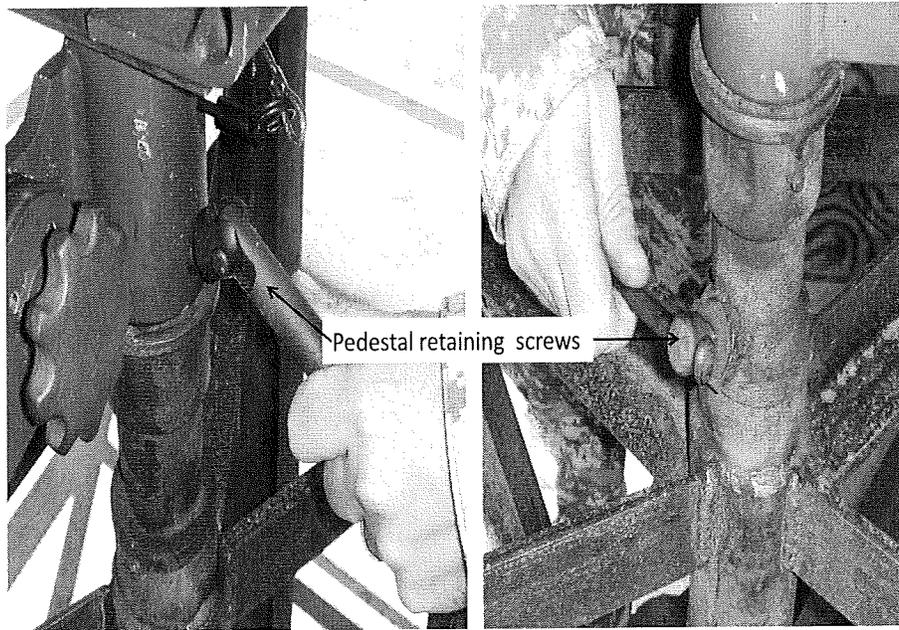
- 3) Ensure depression stop nut & lock nut are tightened with a wrench.



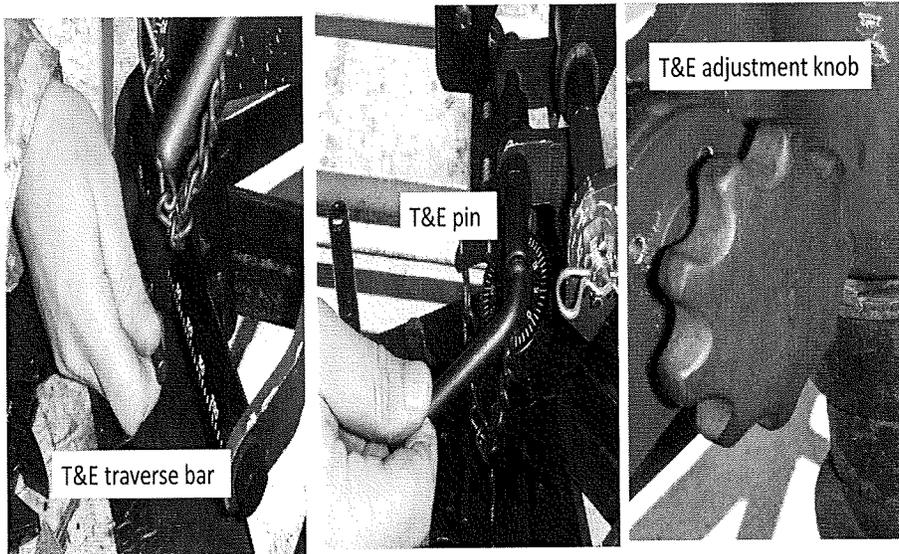
4) Check overhead fire (OHF) adapter mounting bolt for tightness and cotter pin.



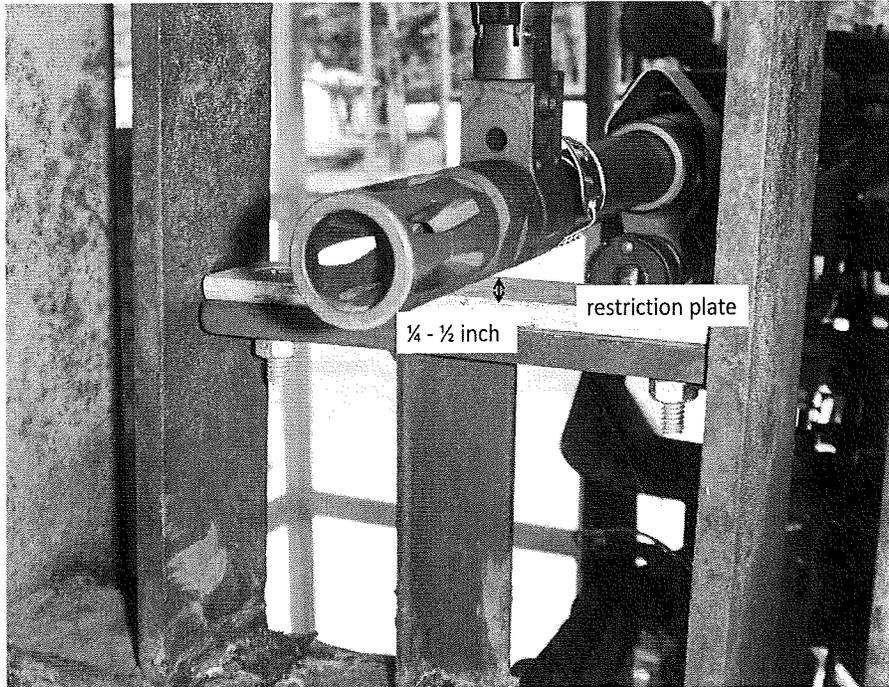
5) Check both Pedestal retaining screws.



6) Check T&E traverse bar is locked, T&E pin is in place and check T&E adjustment knob.



7) Check Barrel height $\frac{1}{4}$ - $\frac{1}{2}$ inch above barrel restriction plate.



6. ZEROING PROCEDURES

Note: Zeroing all M240Bs will involve all key personnel: Range OIC, RSO and all machine gunners. The requirement is that each gun will have all rounds of a six round burst impact the target above the center horizontal controlled fire line of the target. Prior to any troops negotiating the course, the height of the burst will be verified by the OIC and RSO. The guns will be zeroed under direct supervision of the RSO and OIC.

- A. All machine guns will fire 6 rounds down range with the targets up.
- B. All M240Bs will be placed on safe. Only the RSO will rod gun barrels and inspect to clear guns at gun positions. The RSO will announce "Guns clear" to the OIC, who will visually check that the gun towers are clear of personnel and then radio the OIC that the gun line is clear, if the OIC is satisfied that the gun line is clear, he will inform the Trench NCO of the status of the gun line and what action to take.
- C. Once the gun line is cleared, the OIC will direct range cadre to check and mark the hits on the targets. If the 6 round shot groups impacted above the center horizontal controlled fire line of the target, the weapon is zeroed and no more adjustments are needed. If all 6 rounds do not impact above the center line, corrections are given for each gun and the process will be repeated as necessary. No one may occupy the machine gun towers while personnel are down range; assistant gunners and gunners will wait at the base of the towers.
- D. All MGs will be adjusted as needed by both the RSO and the gunner.
- E. If an aiming adjustment was made, that gun will fire an additional 6 rounds to confirm zero. Repeat as necessary.

- F. If zero cannot be confirmed with a barrel, change out the barrel and repeat zeroing procedures.
- G. Once zeroing is complete, the depression lock will be locked in place and the lock nut tightened. Raise the barrel restriction plate to within 1/4 inch of underside of barrel.
- H. Once the weapons are zeroed, the RSO will ensure no adjustments are made on the weapons before training starts.
- I. The RSO will make sure the ammunition and the guns are guarded at all times prior to training.
- J. When firing during course negotiation, all zero targets will be down.
- K. Ammunition breakdown is as follows: Each barrel will be zeroed when placed on the gun by firing six rounds at the target with a result of all six rounds striking above the horizontal center line of the target. Remaining ammunition after zeroing will be broken down evenly for each gun and each platoon.

7. FIRING PROCEDURES

- A. When gunners get the green light, they will fire an initial burst of 10 to 20 rounds simultaneously; they will then alternate fire as follows:
 - 1) Gun 1 fires a 5 to 7 round burst.
 - 2) Gun 2 fires a 5 to 7 round burst 15 seconds after gun 1.
 - 3) Gun 3 fires a 5 to 7 round burst 15 seconds after gun 2.
 - 4) Gun 1 fires a 5 to 7 round burst 15 seconds after gun 3.
 - 5) Repeat steps 2) – 4) until iteration is complete.
- B. The rate of fire will not exceed 70 rounds per minute per gun.
- C. Firing continues in the above sequence until the guns receive one of the following: a red light, a flare goes up, the flood lights come on, or a gun runs out of ammunition.
- D. When gunners run out of ammunition, they will announce, "Gun___ out of ammo." loud enough for one of the Young Range certified RSOs to hear.
- E. All range personnel will observe tracer rounds to ensure the rounds are impacting in the same general area as zeroed and not above or below the area where the zero target would be. If a weapon's point of impact is observed deviating from the general area, the gunner will cease fire and the RSO will be notified.

8. IMMEDIATE ACTION

- A. Immediate action is taken to reduce a stoppage without looking for the cause. Immediate action should be taken in the event of either a misfire or a cook-off. A misfire is the failure of a chambered round to fire. Such failure can be due to ammunition defect or faulty firing mechanism. A cook-off is the firing of a round by the heat of a hot barrel and not the firing mechanism. Cook-offs can be avoided by applying immediate action within 10 seconds after a failure to fire. If the M240B stops firing, the gunner performs the following immediate actions (An effective memory aid is POPP, which stands for Pull, Observe, Push, and Press).

- B. Pull and lock the cocking handle to the rear while observing the ejection port to see if a cartridge case, belt link, or round is ejected. Ensure the bolt remains to the rear to prevent double feeding if a round or cartridge case is not ejected.
- C. If a cartridge case, belt link, or round is ejected, returns the cocking handle to the forward position, aims at the target, and squeezes the trigger. If the weapon still does not fire, the gunner takes remedial action.

9. REMEDIAL ACTION

A. Cold weapon Procedures

- 1) Pulls the cocking handle to the rear, locking the bolt.
- 2) Moves the safety to safe and returns the cocking handle forward.
- 3) Turn face away from the weapon, opens the cover, and performs the four-point safety check.
 - a) Checks the feed pawl assembly under the cover.
 - b) Checks the feed tray.
 - c) Lifts the feed tray and inspect the chamber.
 - d) Checks the space between the face of the bolt and chamber to include the space under the bolt and operating assembly.
 - e) Reloads and continues to fire.
 - f) If the weapon does not fire, clears the weapon and inspects it and the ammunition.

B. Hot Weapon Procedures (to be used during iterations)

- 1) Gunner moves the safety to safe.
- 2) Lets weapon cool for 15 minutes (until iteration ends), and then uses the same procedures as outlined for a cold weapon.

10. CEASE FIRE

A. Anyone can call a cease fire on Young Range.

B. A cease fire will occur if:

- 1) There is a white light seen on the course.
- 2) The flood lights are turned on (except when being used to simulate a flare, and is briefed to all cadre).
- 3) The red lights are on at the gun positions.
- 4) Anyone witnesses an unsafe act as outlined in the safety briefing.

- 5) A cease fire for an individual weapon system will be conducted if a malfunction occurs, rounds begin impacting outside of the general area where the weapon was zeroed, or rounds are witnessed impacting the wood panels.

11. DETONATION CONTROL STATION (DCS)

- A. The OIC and RSO will inspect the DCS daily.
- B. Range Control will maintain the system itself.
- C. The emergency stop button will be used to shut down the system if any demolition pit issue emerges during course negotiation.
- D. If a pit does not fire on the second attempt, that pit will not be used until Range Control inspects its ability to fire. Range cadre will call Range Control immediately and no further attempt will be made to fire the simulator in question.
- E. Tower operators will monitor the gas detection system in the tower throughout iterations to determine if there are any gas leaks. The system will shut off pits with excessive remaining gas. Detection of excessive gas will be reported immediately to Range Control.

12. COMMUNICATIONS

- A. Young Range personnel must maintain communication with range control at all times when the range is active. This is done via Motorola radio. Alternate communication is the FM radio.
- B. Communication between the OIC, RSO, towers, Trench NCO, and gate guards will be maintained at all times using FM communications. If communication is lost with any station, the range will be placed on cease fire until communication is restored.
- C. Mobile phones are not an adequate form of communications and will not be used in place of a radio.

13. SAFETY

- A. Communication: The unit will remain in contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.
- B. Incidents: When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately report it to Range Control and the using unit's higher headquarters. The following information will be furnished by the OIC/RSO to Range Control:
 - i. Designation of unit
 - ii. Range and location
 - iii. Type of weapon involved
 - iv. Brief summary of what happened
 - v. Personnel injuries and extent
 - vi. Full name, SS#, Rank, and Unit of injured personnel
 - vii. Extent of property damage

viii. Intentions regarding an AR 15-6 investigation

- C. MEDEVAC Procedures: Unit will use the standard 9 line MEDEVAC in case of illness or injury. Call 911 and determine what type of evacuation is the most appropriate for the injury. MEDEVAC will be IAW MCoE Regulation 350-19 and USAIC 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. Using units higher headquarters, MCoE Safety, and Range Control will be notified in this event.
- D. Weapons/Ammunition Malfunction Reports: When a malfunction is experienced, the OIC or RSO will suspend all firing and immediately notify Range Control. Retain weapons, all components and ammunition involved in place. An investigation is required and will be conducted by DOL.
- E. There will be no de-linking or re-linking of any ammunition. Any ammunition that has been de or re-linked is considered non standard and is prohibited from the range.
- F. A safety briefing will be given to all Soldiers prior to negotiating the Infiltration Course (Appendix C).
- G. Range cadre will give using unit cadre a Range Orientation briefing covering range sequence, safety, and a walkthrough (Appendix I and H).
- H. Accountability is crucial. Five head-counts will be conducted to ensure there is continuous accountability of Soldiers negotiating the course:
 - 1) The Drill Sergeants conducting the course conduct one count as Soldiers are donning IOTV's.
 - 2) The RSO at the entrance to trail counts as the Soldier pass by.
 - 3) The CCP 1 NCO/trench NCO counts Soldiers at CCP 1.
 - 4) The trench NCO counts Soldiers as they enter the trench.
 - 5) Drill Sergeants and the RSO conduct the final count when all Soldiers have completed the course.
- I. The OIC will use the PA system to correct any problem (unsafe act, Soldiers not crawling properly, etc) while the Soldiers are negotiating the course.
- J. The trench NCO will maintain control of the troops in the trench while they are waiting to negotiate the course.
- K. All training personnel must wear eye pro, ear pro, gloves, ACH helmet with serviceable chin strap and IOTV/ IBA with front and back plates.
- L. Soldiers will crawl around all obstacles (Demo Pits), except the log obstacles.
- M. When crawling over the log obstacles, Soldiers will remain as low as possible.

- N. At no time will any Soldier stand while on the course. If a Soldier does stand, the range will immediately go into cease fire status.
- O. No Soldier, range cadre, or training unit cadre will move forward of the gun line without first checking with the OIC or RSO to see if the firing line is clear.
- P. The medics will remain in the immediate vicinity of the firing line while live firing being conducted. The FLA will remain at the rear of the gun line.
- Q. All other applicable SOPs, regulations, and orders will be adhered to.
- R. All Gunners will wear sound protection headsets.
- S. NVDs will be used during range operation:
 - 1) 3 sets, one for each machine gunner, who will have them worn around their neck.
 - 2) 1 set for the RSO.
 - 3) 1 set for the OIC.
 - 4) 3 sets for the using unit.

*****ONLY RSOs certified on Young Range will be allowed to rod and clear weapons!!!!**

14. Any deviations or change to this SOP will be cleared through the undersigned. The point of contact for this SOP is the Young Range OIC or the undersigned at (706) 626-5505 or jeffrey.d.mcoy10@mil@mail.mil


Jeffrey D. McCoy
LTC, AR
Commanding

Appendix:

Appendix A: M240B Machine Gun Mounting/Dismounting Procedures

Appendix B: M240B Machine Gunner Safety Brief

Appendix C: Night Infiltration Course Soldier Safety Briefing

Appendix D: Young Range VIP/ Visitor Briefing

Appendix E: Civilian Personnel on the Night Infiltration Course

Appendix F: Tower Gun Book

Appendix G: Weapon System Exchange

Appendix H: Cadre Orientation Briefing

Appendix I: Range Cadre Certification Form

Appendix J: TM 9-1370-207-10 and FM 3-23.30

Appendix A
M240B Machine Gun Mounting/Dismounting Procedures

MOUNTING:

1. Gunner ensures MK64 mount matches corresponding gun tower (i.e., mount 1 goes to Tower 1).
2. Gunner ensures M240B matches corresponding gun tower.
3. Place MK 64 mount into pedestal.
4. Mount front pintle onto M240B. Insert pin from right to left.
5. Place gun and pintle into MK 64 mount. (Note: Barrel must go into barrel restriction device first). Lift up on weapon to ensure pintle is locked into MK 64.
6. Raise TACOM butt stock restraining device over butt stock and secure with modified padlock into Sling Attaching Point (Note: Long shank padlock must have a cross bar welded across hasp to prevent turning padlock and slipping out of TACOM restraining device).
7. Emplace rear mounting pin into rear mounting bracket from left to right.
8. Tighten pedestal retaining screw to secure MK64 mount to pedestal.

RSO will verify that the weapon is correctly mounted and take control of the padlock key.

RSO Check

- A. 1) Weapon's pintle is seated and properly secured into the MK-64 mount.
 - 2) T&E mechanism is secured to the bottom rear of the weapon and the T&E is secured to the mount.
 - 3) The large laundry pin is inserted and closed.
 - 4) Gun is mounted so the barrel is just above and not resting on the barrel restraint.
 - 5) Overhead Fire adapter mounting (OHF) bolt is placed through the holes in the latch and secured with a nut and cotter pin.
- B. 1) Check to ensure padlock is locked and correctly routed thru hole on top of M240B (Sling Attaching Point)
 - 2) Check that T&E Traverse Bar is locked, and that T&E pin is in place.
 - 3) Check rear mounting pin.
 - 4) Check rear mount assembly pin.
 - 5) Check pintle pin.
 - 6) Lift up on weapon to ensure pintle is locked into MK 64.
 - 7) Check pedestal tightening screw.

RSO verify RSO check with the OIC and if applicable using unit commander.

DISMOUNTING:

1. Gunner will remove rear mounting pin from rear mounting bracket from right to left.
2. Unlock padlock and remove from hole on top of M240B (Sling Attaching Point). Lower TACOM butt stock restraining device over butt stock to free the weapon.
3. Remove gun and pintle from MK 64 mount.
4. Remove pintle from gun.
5. Loosen pedestal retaining screw and remove MK 64 mount.
6. Keep MK 64, T&E, and mounting hardware together as a system

Appendix B
M240B Machine Gunner Safety Briefing

The RSO will brief the gunners on misfire procedures:

1. Perform immediate action.
2. If immediate action fails, perform remedial action. Gunners will follow the procedures for a hot weapon when performing remedial action. If nothing is ejected and the weapon is hot (200 or more rounds fired in 2 minutes), do not open the cover, place the weapon on safe and notify the RSO. Wait at least 15 minutes, and then clear the weapon **between iterations** (no one down range) at the direction of the RSO. Be careful when clearing the weapon when the barrel is hot; a round may fire (cook off) due to the barrel's heat instead of the firing mechanism.
3. Vacate the machine gun towers when personnel are downrange.
4. Cease fire when:
 - (a) "CEASE FIRE" is called.
 - (b) A white light is seen on the course.
 - (c) Illumination flares are burning over the course.
 - (d) When the red light in the gun tower is on.
 - (e) If you see any one standing on course.
5. Rates of fire and sequence of firing will be as outlined above.
6. Night Vision Devices (NVDs) may "white out" when flares are used and/or when the flood lights are on.

Appendix C
Night Infiltration Course Soldier Safety Briefing

Action:	Move Under Direct Fire
Conditions:	During darkness in a field environment, given an M16/M4 Series Rifle with magazines, Fighting Load Carrier (FLC), Eye Pro, canteen with water, ammunition pouches, helmet, blank adapter, and blank ammunition.
Standards:	Complete the course, demonstrating proper methods and techniques used in the following combat skills; movement under direct fire, move over, through, or around obstacles, react to indirect fire, and react to flares.

DAY:

- I am _____, the Safety Officer for this exercise. I am sure you are all aware of the necessity of a safety briefing and for this reason; I am now going to tell you the important things which you must remember about safety today.
- Heat injuries (when appropriate): During the warm months, one of the greatest dangers you face at Fort Benning is heat injuries. You all have received a class on the symptoms and prevention of heat injuries. Always keep an eye out for signs of heat injury to you or your fellow Soldiers. If you see symptoms of heat injury, immediately notify range personnel or your company cadre.
- Cold Injuries (when appropriate): Same as heat injuries.
- On Fort Benning, you will find a variety of snakes. Some of them are poisonous, and can be found under bunkers and in trenches. If you see a snake, move away from it and notify range personnel or company cadre. Also, move away from any animal you encounter here today.
- Always post road guards when crossing a road.
- If severe lightning should appear, you will be told to move to the designated dispersal area, which is the area that you are currently located. While you are moving to the dispersal area, you will be told where to ground all metal equipment. Avoid flagpoles, wire, and anything that conducts an electrical charge.
- If you should become sick, report this to range personnel or company cadre immediately.
- If you see an unsafe act, or hear "CEASE FIRE", immediately pass the CEASE FIRE command in a loud voice. Then, make no further movement and be quiet so we can identify who called the CEASE FIRE.

NIGHT:

- I am _____, the Safety Officer for tonight. For this reason, I am now going to tell you the important things you must remember tonight regarding safety on the Young Range Infiltration Course.
- All personnel must IOTV/ IBA with plates, ACH, and eye and ear protections while on this course.
- Do not leave the start trench until the green light comes on or the start trench gives the command.
- Once you are on the course, take all commands from the tower.
- Do not crawl over any wire.

- There are 9 Demo pits on the course. You must stay a minimum of 3 feet away from these pits. The Demo pits are surrounded by chain link fens. **Do not crawl over the chain link fens.**
- When you go over the log obstacle, stay as low as possible.
- **Repeat after me, “Over the wood under the wire.”**
- If you see an unsafe act, or hear “CEASE FIRE”, immediately pass the CEASE FIRE command in a loud voice. Then, make no further movement and be quiet so we can identify who called the CEASE FIRE.
- A **RED** light on the range is the signal for CEASE FIRE.
- If you encounter a white parachute flare going off while on the course, you will cease all movement and close your firing eye, once the flare has extinguished you will continue to negotiate the course.
- Do not crawl over any chain link fencing. If you come to any **chain link** fencing, back up and go around and maintain a minimum of 3 feet safe distance.
- If you encounter a snake on the range, do not panic, stay still and yell “CEASE FIRE”.
- **Repeat after me, “Over the wood under the wire.”**
- **DO NOT STAND FOR ANY REASON WHILE ON THE COURSE.**

Appendix D
Young Range VIP/Visitors Briefing

Welcome to Young Range Night Infiltration Course. This course is designed to introduce Soldiers to the sight and sounds of the battlefield during limit visibility while enforcing the Army Values of Personal Courage, Selfless Service, Honor, and Duty.

100% Accountability of Soldiers and equipment are maintained at all times.

The course is 125 meters long by 100 meters wide. It has 4 Log obstacles and 2 wire obstacles. The first obstacle is at 20 meters and the last one is at 100 meters. There are 9 Demo pits that are propane operated by the tower and maintained by Range Control. There are 3 Machinegun towers and one main controlling tower.

During daylight the range cadre conducted a walk/through/certification with the Drill Sergeants and unit cadre. During limited visibility the unit arrives to the range and the Soldiers go to the bleachers. There the Soldiers are briefed on:

1. Action, Conditions and Standards

Action:	Move Under Direct Fire
Conditions:	During darkness in a field environment, given an M16/M4 Series Rifle with magazines, Fighting Load Carrier (FLC), Eye Pro, canteen with water, ammunition pouches, helmet, blank adapter, and blank ammunition.
Standards:	Complete the course, demonstrating proper methods and techniques used in the following combat skills; movement under direct fire, move over, through, or around obstacles, react to indirect fire, and react to flares.

2. The layout of the course
3. Scenario
4. Safety Briefing
5. How to negotiate obstacles as demonstrated

The course will be negotiated one platoon at a time. Platoons will be lined up at the beginning of the trail where a 100% accountability of that platoon will be conducted by the RSO and one Drill Sergeant. Once the count is confirmed, they will be instructed to go down the trail toward the trench located at the beginning of the course. The trail is 250 meters long, midway down the trail they will meet the trench NCO who will conduct a 100% accountability of personnel and equipment and provide further instructions to the Drill Sergeants. Trench procedures are briefed and monitored by the Trench NCO. Once the red light in the trench turns green, the Soldiers begin to negotiate the course. The Gunners will begin firing when one of the following occurs:

1. Soldiers break noise and light discipline.
2. Demo pits go off.
3. Once Soldiers reach first set of demo pits.

Once Soldiers complete the course they are instructed by the Drill Sergeant or the RSO to stand up and go to the rally point. Once at the rally point, a 100% accountability of Soldiers and equipment is conducted before Drill Sergeants move the Soldiers to their holding area.

No one will stand up on the course while the course is negotiated.

Once everyone is accounted for, the Range Cadre will begin their procedures of re-zeroing the machine guns before the next platoon.

Appendix E
Civilian Personnel on the Night Infiltration Course

The Night Infiltration Course is a High Risk Range and special considerations have to be implemented to ensure the safety of all personnel, including civilians.

1. The following civilian personnel are authorized on the Young Range Night Infiltration Course without additional coordination through Range Control and B/3-81 cadre.

- A. Range Control / Range Maintenance Personnel
- B. Ammunition Delivery Personnel
- C. Post Safety Personnel
- D. TRADOC Representatives
- E. Emergency Assistance Personnel

2. The following personnel can be authorized with proper approval from Range Control. When approval is granted, personnel will be briefed by the OIC and escorted by range cadre. At no time will they move forward of the gun towers.

- A. Photographers
- B. Reporters
- C. Unit Representatives
- D. VIPs

3. At no time will any dependent, friend, or vendor be authorized on the range.

4. Appendix I of this SOP is IAW Policy Memorandum 385-63-2, Installation Range Use by Non-Military Personnel as seen below.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE
35 RIDGWAY LOOP
FORT BENNING, GEORGIA 31905-4500

Policy Memorandum 385-63-2

10 DEC 2010

IMSE-BEN-PLT-R

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Installation Range Use by Non-Military Personnel

1. REFERENCES:

- a. AR 385-63, Range Safety, 19 May 2003.
- b. AR 405-80, Management of Title and Granting of Use of Real Property, 10 October 1997.
- c. DA Pam 385-63, Range Safety, 19 May 2003.
- d. MCoE Regulation 350-19, Installation Range and Terrain Regulation, 23 July 2010.

2. PURPOSE: To prescribe the procedures to bring non-military personnel onto ranges, training facilities and training areas of Fort Benning, Georgia.

3. POLICY: The Garrison Commander will approve all requests for non-military visitors to Fort Benning ranges, training facilities and training compartments. Non-military visitors include family members and minor children of active duty personnel and civilians working on Fort Benning; members of the press; Defense Contract Vendors; contractors not assigned to support installation missions; non-military organizations, such as schools; county, municipal, state or federal agencies; and organized clubs including civic organizations. This requirement does not apply to visitors attending official events staffed and approved by the G-3/DPTMS through a memorandum of instruction (MOI) or letter of instruction (LOI). The following procedures will be followed to ensure the safety of the visitor and limit the liability of the Installation.

a. Requesting sponsor/unit will prepare documentation for the requested action with a FB Form 25-52-1-R-E cover. The documentation will include a scenario describing the event clearly stating when weapons and ammunition will be used by the visitor(s), and if the event includes participation by minor children that condition will be clearly stated. The documentation will detail a safety plan, safety briefing to cadre and safety briefing to the visitor(s). The documentation will include a schedule/sequence of events and will require a Composite Risk Management Worksheet developed for the event on the range, facility or in the training compartment intended to be used.

b. The completed documentation will be submitted to Range Control for review to ensure the documentation is complete and not in conflict with current range and training regulations or current training events.

Appendix F
Tower Gun Book

The Tower Gun books will have the following items:

1. Mounting Checklist
2. Certified Mounting Data
3. M240B Mounting Slide
4. M240B Gun Procedures
5. MUDF 3 handout
6. M240B OH Fire Safety
7. Daily Log

Tower 1 Weapon Mounting Data

<i>Mount</i>	<i>M240B</i>	<i>Gunner</i>	<i>OIC</i>	<i>RSO</i>	<i>Date</i>
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<i>1A</i>	<i>U147910</i>				
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<i>1A</i>	<i>U148083</i>				
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<i>1A</i>	<i>U148095</i>				
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<i>1A</i>	<i>U148124</i>				
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<i>Mount</i>	<i>M240B</i>	<i>Gunner</i>	<i>OIC</i>	<i>RSO</i>	<i>Date</i>
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<i>1B</i>	<i>U148184</i>				
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<i>1B</i>	<i>U148197</i>				
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<i>1B</i>	<i>U148206</i>				
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<i>1B</i>	<i>U158711</i>				
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Tower 2 Weapon Mounting Data

<i>Mount</i>	<i>M240B</i>	<i>Gunner</i>	<i>OIC</i>	<i>RSO</i>	<i>Date</i>
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<i>2A</i>	<i>U148057</i>				
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<i>2A</i>	<i>U148067</i>				
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<i>2A</i>	<i>U148106</i>				
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<i>2A</i>	<i>U148147</i>				
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<i>Mount</i>	<i>M240B</i>	<i>Gunner</i>	<i>OIC</i>	<i>RSO</i>	<i>Date</i>
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<i>2B</i>	<i>U148185</i>				
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<i>2B</i>	<i>U148198</i>				
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<i>2B</i>	<i>U158641</i>				
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<i>2B</i>	<i>U158726</i>				
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Tower 3 Weapon Mounting Data

<i>Mount</i>	<i>M240B</i>	<i>Gunner</i>	<i>OIC</i>	<i>RSO</i>	<i>Date</i>
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<i>3A</i>	<i>U148023</i>				
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<i>3A</i>	<i>U148073</i>				
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<i>3A</i>	<i>U148108</i>				
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<i>3A</i>	<i>U148183</i>				
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<i>Mount</i>	<i>M240B</i>	<i>Gunner</i>	<i>OIC</i>	<i>RSO</i>	<i>Date</i>
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<i>3B</i>	<i>U148186</i>				
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<i>3B</i>	<i>U148200</i>				
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<i>3B</i>	<i>U158656</i>				
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<i>3B</i>	<i>U163322</i>				
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Appendix G Weapon System Exchange

The Weapons Pool will manage the exchange and replacement of MK64 machine gun mounts, M240Bs, and barrels. They maintain an historical rounds-fired database for all of the components of the weapon system. They perform maintenance and maintain logs indicating when service and /or exchange are required. When M240Bs and MK64s are exchanged, the range cadre will determine they have been exchanged by verifying the serial numbers or mount IDs with the certified mounting data sheet. Additionally, the Weapons Pool technicians are responsible to inform range cadre when a system component has been exchanged. The range cadre will also inquire if any system component has been exchanged to ensure there is no confusion and nothing gets overlooked. Barrel exchange is more challenging due to the way they are marked. Each barrel is matched to one M240B by a dog tag with that M240B serial number stamped on it, and marked 1, 2, or 3 to indicate the barrel number. These dog tags are removed from previous barrels as they are taken out of service and installed on the new barrels.

Range cadre responsibilities are to maintain and provide the Weapons Pool with an accurate rounds fired count for each MK64 mount, M240B, and barrel. Round counts will be given to the Weapons Pool every time the weapon systems are turned in. When any part of the weapon system is exchange, the range cadre will certify the system.

1. When barrels are exchanged, the previous MK64, M240B, and certified mounting data can be use to certify the barrel.
2. When M240Bs are exchanged, all three barrels corresponding to the M240B have to be certified. The previous certified MK64 mount will be used. The previous certified mounting data will be used as a reference point to obtain the new certified mounting data.
3. When MK64s are exchanged, all M240Bs and the barrels assigned to that particular gun tower must be certified with the new mount. MK64s, M240Bs, and barrels are certified as a system.

Once new certification data is obtained, range cadre will update the certified mounting data sheet inside the gun tower book. This will include the MK64 ID, M240B serial numbers, barrel numbers, and T&E settings.

Certification data is obtained when the system is zeroed by firing a six round belt and having all rounds impact on the target above the center horizontal controlled fire line. A second six round belt will be fired to validate the certification data obtained. If all six rounds do not impact on the target above the center line, range cadre will determine the cause and re-zero the weapon system to obtain the new certified mounting data. Repeat this process until validation is complete.

All certifications will be conducted under the supervision of the range OIC and RSO. The OIC will ensure that proper round count data is provided to the Weapons Pool when weapons are turned in. Gunners and assistant gunners will record numbers of rounds fired on the daily log and provide the data to the Weapons Pool.

Appendix H
Cadre Orientation Briefing

At least two hours prior to the start of the range, the OIC or RSO will give all using unit cadre a Range Orientation Briefing. The briefing will start in the cadre shack using the sand table and image map as reference points. The briefing will cover at a minimum:

1. General description of the range and the purpose of training
2. Layout of the course
3. Uniform
4. Safety measures
5. Accountability measures
6. Using unit manning requirements

Once the briefing is finished, the range cadre will walk the using unit personnel through the range. The walkthrough will follow the sequence of training. The briefer will explain all pertinent actions that occur at each location.

1. Bleachers
2. Infiltration Trail
3. Trench
 - a. Discuss the left and right limits of the trail and course
 - b. Discuss the need to spread out trainees
 - c. Discuss the red/green lights
 - d. Discuss the Drill Sergeants' responsibility to motivate trainees on the course
4. Obstacles and Demolition Pits
5. Last Obstacle (Drill Sergeants assist with collecting trainees as they finish)
6. Link-Up Point
 - a. Accountability of men and equipment
 - b. If summer time, point out dump tank and mention its purpose

At the conclusion of the briefing and walkthrough, the briefer will ask if anyone has any questions. He will then give the using unit cadre a time to have all trainees in the bleachers. Below depicts the actual briefing conducted on the course:

CADRE BRIEF

1. Introduction (OIC/RSO by name)

Action:	Move Under Direct Fire
Conditions:	During darkness in a field environment, given an M16/M4 Series Rifle with magazines, Fighting Load Carrier (FLC), Eye Pro, canteen with water, ammunition pouches, helmet, blank adapter, and blank ammunition.
Standards:	Complete the course, demonstrating proper methods and techniques used in the following combat skills; movement under direct fire, move over, through, or around obstacles, react to indirect fire, and react to flares.

2. **Purpose:** Reinforces Soldiers knowledge of tactical principles of maneuver, while providing a simulated battle field experience.

3. Course Orientation

- BIVOUAC Site Area (AAR)
- Main Road (Buena Vista Rd.)
- Main Gate (Entrance to NIC)
- Cadre Shack
- Bleacher Area
- Trail to trench
- Trench
- Lane (9 Demo Pits, 2 Wire obstacles, 4 Log obstacles)
- Gun Towers
- Control Tower
- Medics (FLA)
- Rally Point (LU)

4. Negotiating the Course

- a) 2 Drill Sergeants minimum per iteration depending on # of Soldiers crawling
- b) 1SG, CO or XO need to be present at all times
- c) Four head counts conducted
 - Entrance to trail
 - CCP1
 - Trench
 - Link Up point
- d) Requirements of lead Drill Sergeant in the Trench
- e) Clearing of obstacles
- f) Use of Laser Pointers
- g) **NO STANDING ON THE COURSE AT ANYTIME**
- h) Flood lights, change barrels and re-zero
- i) Next group heads down trail
- j) Gas detection system horn brief

5. Cease Fire

- a) Anyone can call a Cease Fire
- b) White lights on the course constitutes a CEASE FIRE
 - Only Drill Sergeants can crawl with a white light!!!
- c) Real World Casualty
 - A cease fire will be called through the PA system
 - All personnel crawling will remain in the prone
 - Tower will turn on flood lights
 - Gunners will clear the guns and towers
 - Tower will direct Soldiers to move back to the last obstacle they passed.

- FLA will drive down the left side of the course, enter the lane and police up the Soldier and head to the Cadre Shack to assess the injury.
 - Soldiers will remain at the last obstacle passed until the FLA returns. If time is an issue then one of the top three will make the call to continue or stop the course.
 - RSO and Medics will identify the Hot/Cold weather casualties prior to conducting the course.
6. One water jug will be located at CCP1& CCP2
7. Link-up point will have ICE Sheets and Ice Cooler for Soldiers to dip arms

******DUTY SQD needs to be standing by the ammo point at the beginning of the last iteration in order to police call the gun towers.******

Appendix I
Range Cadre Duties/Certification

All range cadre assigned to Young Range Night Infiltration Course must meet the particular requirements for their respective duty positions and must be aware of their inherent duties. The certification is listed by requirements and related duties by position. The certifying personnel must be either a currently certified OIC or RSO.

1. **OIC**: The OIC must have all of the required documentation listed, this will be verified by the certifying personnel and initialed. The certifying personnel will then brief and explain each of the required duties that the OIC must perform. The OIC being certified will then conduct one right seat ride with a currently certified OIC. The individual being certified will observe each duty that is performed and will initial next to each task to indicate that he understands that task. Once the range has completed the certifying personnel will conduct a back brief and ensure the OIC being certified fully understands his duties. The certifying personnel will then sign and date the sheet and the OIC will be certified.
2. **RSO**: Machine Gunners will be of the rank of the ranks SGT and above. The RSO must have all of the required documentation listed, this will be verified by the certifying personnel and initialed. The certifying personnel will then brief and explain each of the required duties that the RSO must perform. The RSO being certified will then conduct one right seat ride with a currently certified RSO. The individual being certified will observe each duty that is performed and will initial next to each task to indicate that he understands that task. Once the range has completed the certifying personnel will conduct a back brief and ensure the RSO being certified fully understands his duties. The certifying personnel will then sign and date the sheet and the RSO will be certified.
3. **Machine gunner**: The RSO must have all of the required documentation listed, this will be verified by the certifying personnel and initialed. Each machine gunner must observe at least three iterations of live fire from a machine gun tower, starting from the mounting of the machine gun all the way through the completion of the range when the machine gun is removed. Each machine gunner will then be required to pass a written test covering the Unit SOP, TSP, Safety Procedures, and overall range conduct they must score at least 70% to receive a GO. Each gunner will also have a hands on examination covering mounting the M40B, loading, unloading, firing correcting malfunctions, assembling and disassembling the M240B, they must receive a 100% in order to be considered a GO. Each machine gunner will be briefed and will initial next to each duty to show that they understand their requirements. Once the certifying personnel signs and dates their certification sheet the Machine Gunner will be certified.
4. The duties of the Trench NCO and CCP NCO are listed and the personnel performing those duties will be briefed on the tasks they must complete by the OIC or RSO, the Soldier will initial each duty to show they understand their responsibilities.

OIC Duties/Certification Form

OIC Name: _____ Certifying Personnel: _____

Requirements	Certifying Initials	DATE
SFC or above		
CTC		
ABIC		
CLS		
RSO Card		
NIC instructor certification		
Duties	OIC Initials	DATE
Familiar with TSP		
Familiar with B-Co Unit SOP		
Ensure ammunition is labeled as for overhead fire		
Check status of medics		
Supervises all Range Cadre		
Verify the mounting of M240Bs		
Contact range control RP and sign for range book		
Ensure the Daily Risk assessment is filled out		
Maintain DA 1594 starting with Opening code		
Ensure the range flag is raised when the range goes hot		
Maintain comms with Range Cadre and Range Control		
Provide 3-81 AR Staff Duty with training start time		
Ensure range is clear of personnel before conducting zero		
Supervise zeroing procedures		
Reports weapons registration numbers to range control		
Test Fire pits		
Control training tempo of the range		
Observe Soldiers and Drill Sergeants negotiating the course		
Identify safety violations and call cease fire		
Ensure 100% accountability of personnel after each iteration		
Conduct range briefing with training unit		
Conduct coordination with training unit		
Conduct hand held radio check		
Control target lifters		
Monitor propane detection panels		
Initiate pit detonation		
Close DA 1594 with closing code		

Certifying Printed Name: _____

Certifying Signature: _____

DATE: _____

RSO Duties/Certification Form

RSO Name: _____ Certifying Personnel: _____

Requirements	Certifying Initials	DATE
SSG or Above		
CTC		
ABIC		
CLS		
RSO Card		
NIC instructor certification		
Qualified on M240B		
Duties	RSO Initials	DATE
Familiar with TSP		
Familiar with B-Co Unit SOP		
Responsible for overall safety of the range		
Ensure NVGs and hand held radios are working		
Conduct a walk of the course checking for safety issues to include the pits		
Ensure road guards are in place and have conducted radio check with OIC		
Supervise weapons mounting and physically check each mount		
Secure keys to weapon mounts for duration of range		
Ensure training unit has wet-bulb in place		
Ensure training unit has Ice sheets in place		
Ensure training unit has necessary cooling measures arm immersion kits etc.		
Ensure safety brief is conducted during class portion		
Ensure Soldiers are in correct uniform with all PPE. IBA with plates, eye pro and ear pro		
Conduct head count of Soldiers after each iteration		
Observe Soldiers for Safety violations as they conduct course		
Take control of Soldiers as they exit the course		
Monitor the firing of the machine guns		
Clear weapons after each iteration		
Clear each weapon before removal from mount		

Certifying Printed Name: _____

Certifying Signature: _____

DATE: _____

Machine Gunner Duties/Certification Form

Machine Gunner: _____ **Certifying OIC:** _____

Requirements	Certifying Initials	DATE
SGT or above		
CTC		
ABIC		
CLS		
RSO Card		
NIC instructor certification		
Qualified on M240B		
1 st Iteration as observer in machine gun tower		
2 nd Iteration as observer in machine gun tower		
3 rd Iteration as observer in machine gun tower		
Pass written test 70% minimum		
Hands on test 100% Correct		
Duties	Machine Gunner Initials	DATE
Familiar with TSP		
Familiar with B-Co Unit SOP		
Mount M240B		
Conduct zeroing procedures at the direction of the RSO		
Conduct barrel change after each iteration at the direction of the RSO		
Clear the weapon after each iteration		
Control rate of fire of the M240B		
Call cease fire when observing any unsafe acts		
Maintain radio contact with OIC and RSO		
Dismount the M240B after the range is complete under the direction of the RSO		

Certifying Printed Name: _____

Certifying Signature: _____

DATE: _____

Back Wall NCO Duties

NCO: _____

Briefing Personnel: _____

Duties	Back Wall NCO Initials	DATE
Secures NVGs and laser pointers for the range tower		
Conducts headcount of Soldiers before they enter the trail send numbers to the OIC before movement begins		
Assist the RSO's to inspect targets after each weapons registry iteration		
Ensure Soldiers are evenly spaces at the wall and ready to exit the trench before the iteration begins		
Notifies OIC when Soldiers are ready to assault the course		
Gives the command for the Soldiers to exit the trench and assault the course at the command of the OIC		
Conduct a check to make sure all Soldiers have entered the course.		
Initiate flares under the direction of the OIC		
Monitors Soldiers Movement for the first half of the course		
Prepares the next iteration for movement		
Initiates the L594 Ground Burst Simulator		

CCP NCO Duties

NCO: _____

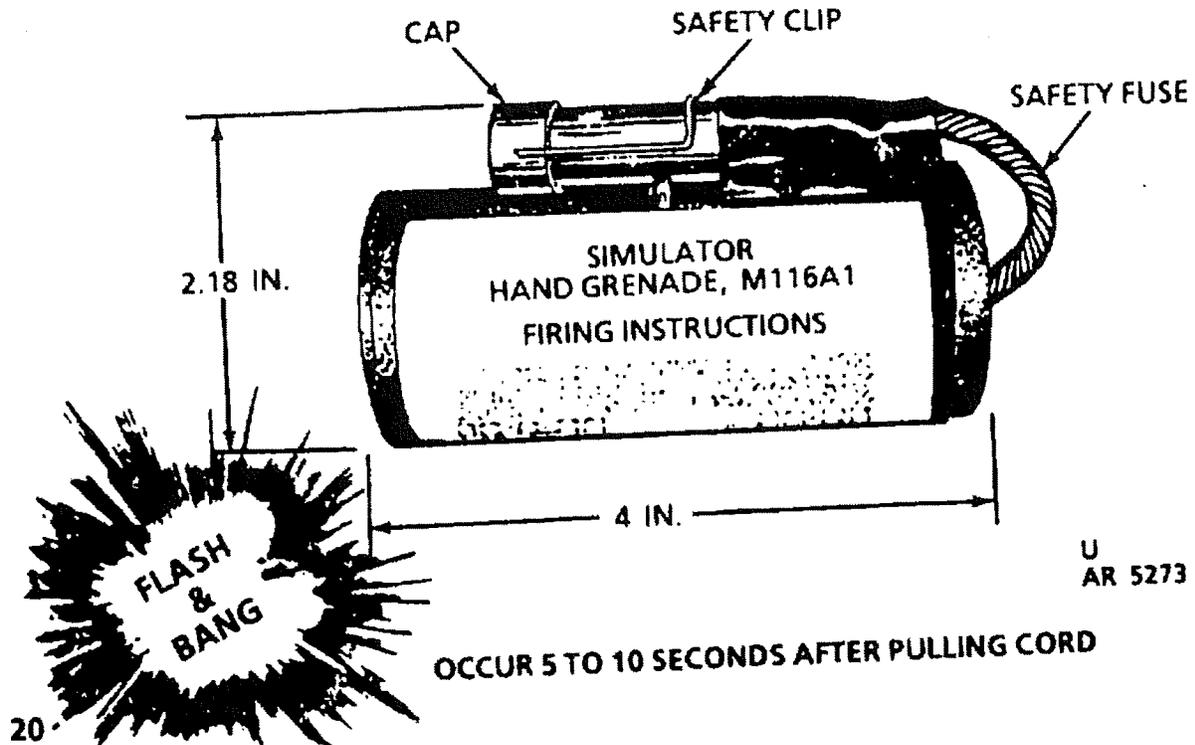
Briefing Personnel: _____

Duties	Back Wall NCO Initials	DATE
Conduct radio check with OIC before each iteration		
Setup CCP with 2 five gallon water cans and a litter		
Conducts head count before Soldiers enter course and sends it to the OIC		

Appendix J
TM 9-1370-207-10 and FM 3-23.30

HAND GRENADE SIMULATOR, M116A1

The **M116A1 hand grenade simulator** differs from the ground-burst simulator in that it is shorter and does not emit a high-pitched whistle before detonation. The hand grenade simulator is thrown in the same manner as a live grenade. It creates a flash and loud report 5 to 10 seconds after ignition.



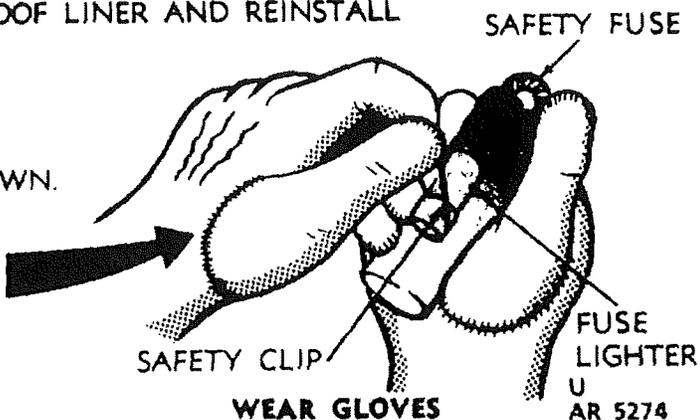
UNPACK

1. REMOVE COVER FROM PACKING BOX AND CAREFULLY OPEN WATERPROOF LINING (LINING MUST BE RESEALED).
2. REMOVE DESIRED NUMBER OF SIMULATORS.
3. BALANCE REMAINING SIMULATORS IN BOX BY INSERTING FILLER MATERIAL.

4 CAREFULLY REFOLD WATERPROOF LINER AND REINSTALL BOX COVER.

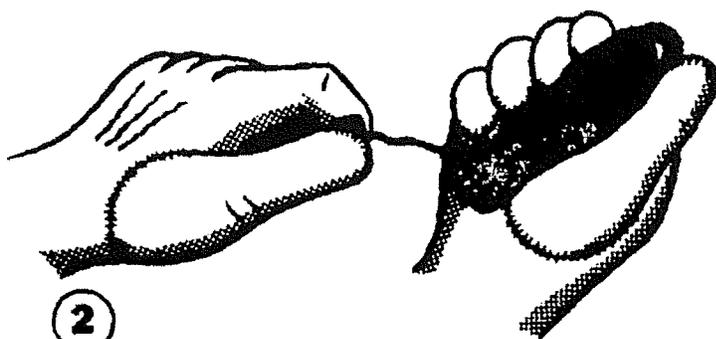
**TO THROW ..
FOLLOW LABEL AS SHOWN.**

1 REMOVE SAFETY CLIP FROM FUSE LIGHTER.



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AR 5274

21



GRASP SIMULATOR IN THROWING HAND. CAREFULLY REMOVE CAP UNTIL FREE OF IGNITER AND CORD IS PARTIALLY EXTENDED.



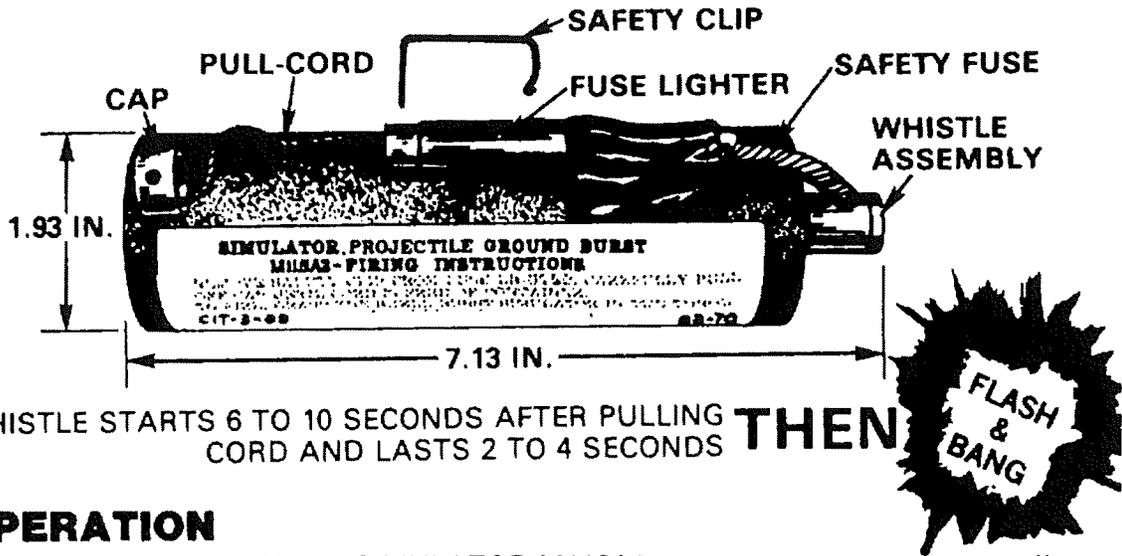
3

ASSUME THROWING POSITION. JERK THE PULL-CORD ONCE, THEN THROW IMMEDIATELY.

D U D -DO NOT TOUCH THE DUD!
MARK LOCATION OF DUD FOR EOD PERSONNEL. U
CALL EOD FOR OISPOSAL.

GROUND BURST SIMULATOR, M115A2

The **M115A2 ground-burst simulator** is activated by pulling its M3A1 friction delay igniter cord and immediately thrown into a cleared area. After a 6- to 10-second delay, it produces a high-pitched whistle that lasts 2 to 4 seconds and then detonates with a loud report and brilliant flash. Burning pyrotechnic compound generates the whistle.

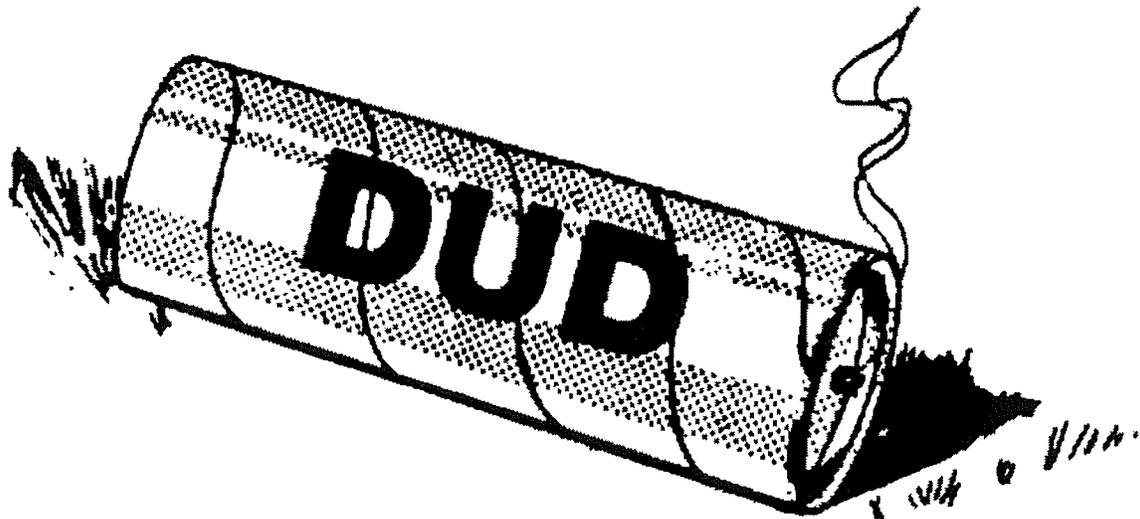


WHISTLE STARTS 6 TO 10 SECONDS AFTER PULLING CORD AND LASTS 2 TO 4 SECONDS **THEN**

OPERATION

* SAME AS HAND GRENADE SIMULATOR M116A1.

U
AR 5276

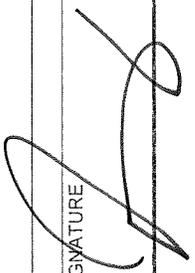


WAIT 30 MINUTES

DO NOT TOUCH THE DUD! MARK LOCATION OF DUD FOR EOD PERSONNEL.

COMPOSITE RISK MANAGEMENT WORKSHEET

For use of this form, see FM 5-19; the proponent agency is TRADOC.

1. MSN/TASK NIGHT INFILTRATION COURSE		2a. DTG BEGIN 010001AUG2013		2b. DTG END 302359JUL2014		3. DATE PREPARED (YYYYMMDD) 20130701	
4. PREPARED BY a. LAST NAME COVINGTON, JAMES		b. RANK SFC		c. POSITION NCOIC Bravo Company, 3D Battalion 81ST Armor, Ft. Benning, GA 31905		12. WAS CONTROL EFFECTIVE?	
5. SUBTASK Overhead fire	6. HAZARDS M240B malfunctions (misfire, runaway gun, firing below 110 inches)	7. INITIAL RISK LEVEL E	8. CONTROLS Tower gunners are briefed by OIC and RSO prior to execution. RSO confirms ammunition lot and weapons are operational. Test fire is conducted. OIC ensures gunners are certified and have a current qualification card (RSO qualifies on Table I and gunners are qualified on Table I and II for M240B) OIC and RSO confirm weapons status and control firing during test fire and execution.	9. RESIDUAL RISK LEVEL H	10. HOW TO IMPLEMENT Range SOP and FM 3.22-68, TRADOC REG 350-1, MCOE REG 350-19, DAPAM 385-63	11. HOW TO SUPERVISE (WHO) OIC, RSO, gunners, individual Soldiers	
Overhead fire	Gun shot wound (Soldier struck by errant round)	E	Medic on site, OIC confirms 68W certification prior to training. Weapons are locked and keys maintained by RSO. Weapons are test fired and will not fire below 110 inches. Soldiers are briefed to not stand while on the course. RSO and trench NCO have NVGs to ensure Soldiers crawl. Soldiers wear IBA w/ plates, eye and ear protection. Soldiers are briefed and conduct IMT refresher training prior to negotiating the course. Medics have a EVAC plan that includes: strip map, dedicated vehicle and 911 procedures	H	Range SOP and FM 3.22-68, TRADOC REG 350-1, MCOE REG 350-19, DAPAM 385-63	OIC, RSO, gunners, trench NCO battle buddies, individual Soldiers	
13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one) <input type="checkbox"/> LOW <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> HIGH <input type="checkbox"/> EXTREMELY HIGH							
14. RISK DECISION AUTHORITY a. LAST NAME HERMELING, JOHN C.							
b. RANK COL		c. DUTY POSITION Commandant USAARMS		d. SIGNATURE 			

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
React to flare	Soldiers experiencing debris/fall out from flare use	E	RSO will brief trench NCO on the proper use of flares, flares will be fired only from the back wall ensuring that the flares are angled as vertical as possible to prevent flares from landing on the course, proper actions for reacting to flares on the course will be covered in the safety brief. Range cadre are certified to complete assigned tasks by OIC.	H	Range SOP, TRADOC REG 350-1, MCOE REG 350-19, DAPAM 385-63	OIC, RSO, Back Wall NCO, battle buddies, individual Soldiers	
Demolitions	Demo Pits	E	Trench NCO and RSO ensure pits are clear of Soldiers prior to detonation via NVGs, Back Wall NCO and RSO have NVGs and are in verbal communication w/ OIC	H	Range SOP, TRADOC REG 350-1, MCOE REG 350-19, DAPAM 385-63	OIC, RSO, Back Wall NCO, Drill Sergeants, battle buddies, individual Soldiers	
Pyrotechnics	Pyrotechnics	H	Back Wall NCO and Trench NCO clear the area of Soldiers via NVGs. Verbal communication is maintained with the OIC and RSO.	M	Range SOP, TRADOC REG 350-1, MCOE REG 350-19, DAPAM 385-63	OIC, RSO, Back Wall NCO, Drill Sergeants, battle buddies, individual Soldiers	
Obstacle negotiations	Wire obstacles	H	Back Wall NCO and RSO ensure Soldiers are not tangled in wire obstacles via NVGs. Back Wall NCO and RSO have NVGs and are in verbal communication w/ OIC.	M	Range SOP and FM 3-22-68, TRADOC REG 350-1, MCOE REG 350-19, DAPAM 385-63	OIC, RSO, Back Wall NCO, Drill Sergeants, battle buddies, individual Soldiers	
Misfire	Correcting malfunctions on M240B	H	Gunnery are qualified on weapon and certified by OIC on the M240B. Clearing procedures are followed once range is clear of Soldiers. Gunnery are in direct verbal and visual communication w/ RSO and OIC.	M	Range SOP and FM 3-22-68, TRADOC REG 350-1, MCOE REG 350-19, DAPAM 385-63	OIC, RSO, Back Wall NCO, Drill Sergeants, battle buddies, individual Soldiers	
Accountability	Soldier accountability during live fire	H	Soldiers are accounted for at the bleachers after instruction once again at the CCP enroute to the start of the course and the Back Wall NCO maintains head count of Soldiers when they line up, and reports to OIC. Training unit rep at the base of the tower counts upon completion of iteration and notifies RSO. Soldiers receive conduct of range briefing.	M	Range SOP, TRADOC REG 350-1, MCOE REG 350-19, DAPAM 385-63	OIC, RSO, Back Wall NCO, Drill Sergeants, battle buddies, individual Soldiers	
React to indirect demolition pits	Exposure to debris from demolition pits	H	Proper instruction and supervision of propane simulators. Proper preventive maintenance on pits. Soldiers wearing ACH helmet, IBA w/ plates, eye and ear protection. Ensure pits are in	M	AR 385-63, DA PAM 385-63, CH 17, PER SOP	OIC, RSO, Back Wall NCO, Drill Sergeants	

ITEMS 5 THROUGH 12 CONTINUED:

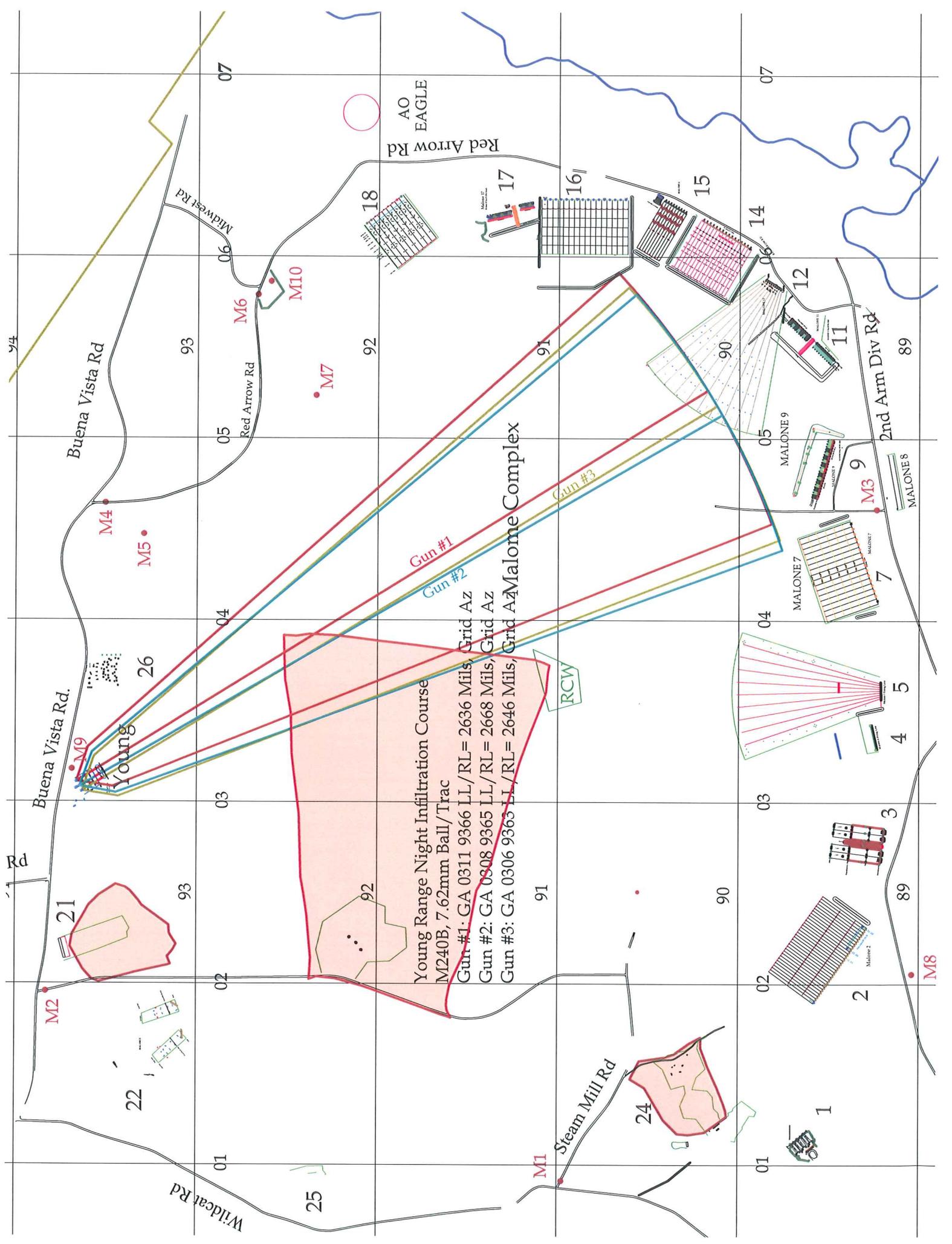
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Negotiating course	Hot weather injury	H	compliance with AR 385-63 and DA PAM 385-63, CH 17 Wet bulb on site, CLS w/ aide bag, Hub Medic, ice sheets and bulk water source. OIC can alter uniform and training tempo to meet temperature guidelines, but not during live fire. Buddy teams monitor each other, range cadre and Drill Sergeants monitor all Soldiers. Maximize use of shade, arm emersion tanks/ other active cooling techniques. Kestral on site and operational.		GTA 5-12-8, 194th AR BDE hot weather GTA, AR 385-63, AR 385-10, DA PAM 385-10, Range SOP, USAIC Reg 40-14.4, FBGA Policy 2008	OIC, RSO, Drill Sergeants, Back Wall NCO, Battle Buddies, Individual Soldiers	
Negotiating course	Cold weather injury	H	Wet bulb on site, CLS w/ aide bag, Hub Medic, ice sheets and bulk water source. OIC can alter uniform and training tempo to meet temperature guidelines, but not during live fire. Buddy teams monitor each other, range cadre and Drill sergeants monitor all Soldiers	M	GTA 5-12-8, AR 385-63, AR 385-10, DA PAM 385-10, Range SOP	OIC, RSO, Drill Sergeants, Back Wall NCO, Battle Buddies, Individual Soldiers	
Negotiating course	Hearing Loss	M	Gunners and asst. gunners wear double hearing protection. RSO ensures Soldiers have and use ear plugs during live fire, extras are available on site from training unit. Safety briefing to all Soldiers and Range Cadre. RSO confirms all Soldiers on site wear ear protection.	L	AR 385-63, AR 385-10, DA PAM 385-10, Range SOP	OIC, RSO, Drill Sergeants, Back Wall NCO, Battle Buddies, Individual Soldiers	
Negotiating course	Eye Injury	H	Soldiers and cadre wear eye protection extras on site. Safety briefing to all Soldiers and Range Cadre, RSO confirms all Soldiers on site wear eye protection	M	AR 385-63, AR 385-10, DA PAM 385-10, Range SOP	OIC, RSO, Drill Sergeants, Back Wall NCO, Battle Buddies, Individual Soldiers	
Occupy range	Severe weather	M	Training unit is responsible for Soldiers equipment requirements to meet weather. Training unit emplaces and puts into operation wet bulb and monitors it through the day. Range		AR 385-63, AR 385-10, DA PAM 385-10, Range SOP		

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
			Control Net is monitored at all times. Soldiers briefed on severe weather action plan. OIC ensures wet bulb is operational and monitored in constant contact w/ Range Control via FM	L		OIC, RSO, Drill Sergeants, Back Wall NCO, Battle Buddies, Individual Soldiers	
Safety Brief/Class	UXO	M	Soldiers receive UXO briefing during class portion. Lane safeties monitor lanes during execution and maintain contact w/ Range Control via FM OIC calls cease fire until clear	L	MCOE REG 350-19, Range SOP	OIC, RSO, Range Cadre, Drill Sergeants, Battle Buddies, Individual Soldiers	
Safety Brief/Class	Animals on the range	M	Soldiers are restricted to authorized areas only. They will not approach wildlife and will notify Cadre if they observe animals down range. Soldiers receive briefing prior to execution.	L	AR 385-63, AR 385-10, DA PAM 385-10, Range SOP DA PAM 385-30	OIC, RSO, Range Cadre, Drill Sergeants, Battle Buddies, Individual Soldiers	
			Lane Safeties have radio comms w/ OIC. OIC clears the range prior to occupation by the training unit.				
Negotiating Class	Limited visibility	M	All NVGs are tested annually and receive PMCS prior to training. Extra batteries will be available for each set of NVGs.	L	TC 21-305-2, TM 11-5855 -262-10-02, Range SOP, TSP, DA PAM 385-10, AR 385-10	OIC, RSO, Range Cadre, Drill Sergeants, Battle Buddies, Individual Soldiers	

Young Range Roadblocks 12 Jan 2012

Roadblock #	GRID	LOCATION	TYPE
M-1	GA 009 910	Across Steam Mill Rd 10m E of its intersection with Wildcat Rd.	Gate
M-2	GA 019 938	Across Massey Rd 10 meters S. of its intersection with Buena Vista Rd.	Gate
M-3	GA 046 892	Across Stenay Rd 30m N. of its intersection with 2nd Armored Division Rd.	Gate
M-4	GA 046 935	Across Red Arrow Rd 30m S. of its intersection with Buena Vista Rd.	Gate
M-5	GA 045 933	Across unnamed trail 220m SW of its intersection with Red Arrow Rd.	Gate
M-6	GA 058 927	Across Red Arrow Rd 30m W. of its intersection with Midwest Rd.	Gate
M-7	GA 052 923	Across Steam Mill Rd 400m S. of its intersection with Red Arrow Rd.	Gate
M-8	GA 021 891	Across unnamed trail on S side of 2nd Armored Div Rd 110m E of entrance to Malone 2.	Gate
M-9	GA 032 937	Across unnamed trail on S side of Buena Vista Rd 200m E. of entrance to Young Range.	Gate
M-10	GA 059 926	Entrance to Borrow Pit on Red Arrow Rd. 50m SE of M-6 Roadblock.	Gate



Young Range Night Infiltration Course
 M240B, 7.62mm Ball/Trac
 Gun #1: GA 0311 9366 LL/RL= 2636 Mils, Grid Az
 Gun #2: GA 0308 9365 LL/RL= 2668 Mils, Grid Az
 Gun #3: GA 0306 9363 LL/RL= 2646 Mils, Grid Az

Steam Mill Rd
 M1

Red Arrow Rd
 AO EAGLE
 M10
 M7

2nd Arm Div Rd
 MALONE 8
 MALONE 9
 MALONE 7
 MALONE 6
 MALONE 5
 MALONE 4
 MALONE 3
 MALONE 2
 MALONE 1
 M3
 M8

Buena Vista Rd
 M2
 M4
 M5
 M9

Rd

Wildcat Rd

Midwest Rd

Buena Vista Rd

01

02

03

04

05

06

07

25

22

21

26

05

06

07

92

91

92

92

18

91

90

91

91

17

Gun #1
 Gun #2
 Gun #3

90

04

04

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