

MCB Camp Pendleton OIC & RSO Information Bulletin and Handout

Date Revised – 03 November, 2022

All Service Members Must Be In Uniform!

<ol style="list-style-type: none"> 1. Testing Location - Range 107 (Building #25166), Old Skeet & Trap Range. <ol style="list-style-type: none"> a. NO APPOINTMENT! b. DL Testing for Non-Military Members. c. For more information call (760) 725-0357/3510/4219 	Testing Days (Except Holidays): Every Tuesday & Wednesday 0900-1215
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Testing Procedures

1. Test is open book and attendees must bring all orders and directives listed below in paper or electronic form to test.
2. **DOCUMENTS CANNOT BE SHARED.**
3. Test questions will be come from:
 - a. **Base OIC/RSO class/video**
 - b. **Current OIC-RSO Information Bulletin and Handout**
 - c. **CAMPENO 3500.1B (dtd 05 Jan 2022)**
 - d. **MCO 3570.1C (dtd 30 Jan 2012)**
 - e. **DA PAM 385-63 (dtd 16 April 2014)**
 - f. **Environmental Operations Map dtd March 2013)**
 - g. **Current BFX Letter and BFX Information Letter and Handout**
4. **Ensure you have read all orders and directives prior to testing.**
5. Watch the Remote Class on line on YouTube. Search **Camp Pendleton FAC** to find.
 - a. There are three videos.
 - b. Ensure you watch each portion of the video as it is broken into parts.
6. Bring Pen or pencil.
7. **Ensure your tablet is fully charged, power may not be available.**
8. **Cell Phones and Cameras are NOT allowed.**

Types of OIC & RSO qualifications

1. **Training OIC/RSO**
 - a. This qualification is required for all types of training (Para Ops, Convoys, HRST, Gas Chambers, Hikes, etc.) and any training with any type of munitions including blanks, projectiles, explosives. etc.
 - b. Personnel in this category include Military Personnel, Law Enforcement Officers, and Civilian Contractors providing military training and civilian NFEs and MCCS.
 - c. Must have valid Distance Learning Range Safety (DLRS) available on MarineNet in order to take local test.
 - d. Both DLRS and **local certification are valid for three years.**
2. **Administrative RSO**
 - a. This qualification is required for events or activities not related to training.
 - b. Personnel in this category include construction projects, environmental survey, etc.
 - c. **Local certification are valid for three years.**

Additional Endorsements

Testing ONLY allowed for Previously Certified MCB OIC/RSO

FAC/J-TAC Sergeant (E-5) and Above	R130 Complex
<ol style="list-style-type: none"> 1. Watch the Remote FAC/JTAC Class on line on YouTube. Search Camp Pendleton FAC to find. <ol style="list-style-type: none"> a. There are two Videos. b. Ensure you watch each portion of the video as it is broken into parts. 2. Bring FAC Handout to testing. 3. DOCUMENTS CANNOT BE SHARED. 4. Complete the MCB Camp Pendleton Range Operations FAC/JTAC proctored testing. 5. Local certification are valid for three years. 	<ol style="list-style-type: none"> 1. Testing is conducted for EOTG STB Personnel. 2. All other units MUST receive approval from the RCO prior to taking the test. 3. Rank Requirements. <ol style="list-style-type: none"> a. R130 Complex OIC - E-7 and above or GS-7 and Above b. R130 RSO - E-6 & above, GS-05 & above or Government Contactor 4. Watch the Remote R130 OIC/RSO Class on line on YouTube. Search Camp Pendleton R130 to find. 5. Bring the R130 Handout and CAMPENO 3500.1B to testing. 6. Ensure you have read all orders and directives prior to testing. 7. DOCUMENTS CANNOT BE SHARED. 8. Complete the MCB Camp Pendleton Range Operations R130 proctored testing. 9. Local certification are valid for three years.

BFX Operations (Contractors ONLY)

1. Watch the Remote BFX Class on line on YouTube. Search **Camp Pendleton BFX Class** to find.
2. Present your State certification when you check in the day of testing, must be current.
3. **Bring the BFX Handout.**
4. Complete the MCB Camp Pendleton Range Operations BFX proctored testing.
5. Local certification are **valid for two years.**

RFMSS Class/Training

1. This course is conducted the First Wednesday of the month (Except Holidays) in Bldg. 2399.
2. Contact Range Scheduling at (760) 725-3510/4219 for information.
3. Prerequisites:
 - a. Must be a member of a unit authorized to use RFMSS on Camp Pendleton
 - b. Must be designated by unit Commanding Officer or authorized representative to attend.
4. Start time is 0800 and will end at approximately 1100.

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Phone Numbers and Email	LONGRIFLE Frequencies	Vehicles
<p>Phone Numbers – (DSN 365-)</p> <p>LONGRIFLE - (760) 725-4277</p> <p>OIC/RSO Confirmation – (760) 725-0357</p> <p>Range Scheduling – (760) 725-4219/3510 (760) 725-4090 (FAX)</p> <p>Range Safety Specialists - (760) 390-9339</p> <p>Range Control Officer - (760) 725-0355</p> <p>EMAIL: PNDL_OTRANGEINSPECTORS@usmc.mil PNDL_OTRANGESCHEDULING@usmc.mil</p> <p>SharePoint: https://eis.usmc.mil/sites/mciw_rpolicy/rod/default.aspx</p>	<p>40.35 FM Primary Ground Safety Net</p> <p>30.35 FM Alternate Ground Safety Net</p> <p>310.3 UHF Air Safety Net</p> <p>305.925 UHF Forward Air Controllers</p> <p>255.2 UHF Forward Air Controllers</p> <p>123.2 VHF Used By Civilian Aircraft</p>	<ol style="list-style-type: none"> 1. Road & River Report Dependent. 2. Driver must have positive Radio Communications with LONGRIFLE. 3. All POVs require a POV Pass unless authorized to park in a parking lot within specific range special instructions. 4. Vehicle must be a “truck like” vehicle – NO SEDANS, Mini Vans or motorcycles. 5. Only CPFV vehicles are authorized on Fire Breaks. 6. POVs are UNAUTHORIZED on Active Grenade Ranges, Demo Ranges, MP's, MFA's or AFA's. 7. If POV pass is pulled for violations, it will not be returned or replaced. 8. Food Truck (Roach Coach) is only authorized behind the firing line on KD Ranges with OIC approval.

Scheduling

1. **All scheduling requests must be submitted via their battalion utilizing RFMSS.**
 - a. Scheduling Priorities:
 - 180 Days - USMC Formal Schools
 - 120 Days - MEUs/HIMAR
 - 90 Days - Active Duty Units & Marine Reserves
 - 60 Days - Other Reserve Units and National Guard
 - 30 Days - All Other Units/Civilians
 - b. Schedule all facilities required (i.e. AFAs within Training Areas are separate facilities)
 - c. Co-Use: Units must submit an email from both units to RCO NLT 7 working days prior to the event (Must show facility, weapons, munitions & SOM) from both units.
 - d. Hike/Convoy Routes and CS Overlays, Email to Scheduling.
 - e. Waivers requests must be submitted at a minimum of 30 Days from date of event (i.e. Civilians (Non DoD Contractors/Employees), experimental weapons/ammo, warrior nights, changes to range regs, etc).
 - f. **Remain clear of aviation Facilities – 500 METERS.**
2. **Air Space**
 - a. R2503A/B – (0600- 2359) Available daily. Requests to utilize R2503A/B (2400 – 0600) must be submitted five (5) working days from the training event.
R2503C – Requests to utilize must be submitted twenty (20) working days from the training event.
R2503D – Requests to utilize must be submitted thirty five working days from the training event.
3. **Air Priority Days**
 - a. **Zulu Air Priority Days** - 1st, 2nd & 3rd Wed & Thu of the Month
 - b. **Whiskey Air Priority Times (Weekdays)** - 1400-1700 & 2000-2300
3. During air priority times/day, non-supporting ground units will be check fired
4. **Scheduling under Seven Days will be disapproved.**

Briefs, Waivers and Target Inserts

1. **Briefs and Waivers**
 - a. Required Briefs (Concept of Ops & Scheme of Maneuver)
 - b. LFAMs on ranges without dedicated impacts areas: **60 Working Days**
 - c. Ranges with dedicated Impact Areas, MFAs: **14 Working Days.**
 - d. **All waivers must be submitted NLT 30 Days from event.**
2. **Target Inserts**
 - a. All requests for target inserts, impact area escorts or live penalty training shall be approved prior by the RCO.
 - b. Request must be submitted to the RCO **NLT 30 days** from the event.

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Range OICs, RSOs and PSOs

1. **OIC of Training** - The OIC shall be of equivalent or senior rank to the RSO. The OIC maintains surveillance of firing and safety within the entire surface and vertical hazard space of the assigned range; he/she shall be physically present at live fire events. The OIC is a supervisory position conducted by a commissioned officer, warrant officer, staff noncommissioned officer, noncommissioned officer or Government Service civilian equivalent. Civilian contractors shall not perform the duties as an OIC. The OIC may personally participate in training, as long as the OIC can maintain control of the training event.
 - a. Training
 - The OIC must complete the Training and Education Command (TECOM) Distance Learning Range Safety Course (DLRS) and the MCIWEST-MCB CAMPEN Range Safety Certification Course (RSCC).
 - Upon successful completion of the RSCC, Range Operations will enter those names into the RFMSS data base.
 - c. Both DLRS and local certification are valid for three years.
 - b. Responsibilities
 - The OIC shall have a detailed RM worksheet, signed by the unit commander in their possession covering all phases of training. For live fire and maneuver (LFAM) training, an approved concept of operations, scheme of maneuver and RCO Brief Sheet must also be in their possession at all times while training.
 - The OIC shall ensure all personnel wear the appropriate personal protective equipment.
 - The OIC must be knowledgeable on the weapon(s) or weapons system(s) being used and brief the RSO on the duties to be performed in support of the training event, and clearly establish the requirement for the RSO to brief the OIC on the safety of the facility/unit, and the readiness to commence live-fire operations prior to the start of firing.
 - The OIC is responsible for accountability, handling, turn-in and proper use of ammunition and explosives.
 - The OIC will verify the RSO is qualified with the weapon(s) or weapons system(s) being used.
 - The OIC will ensure the RSO provides for a dedicated emergency vehicle and medical personnel for all training events.
 - Coordinate all Medical Evacuation (MEDEVAC) requirements with LONGRIFLE.
2. **RSO of Training** - The RSO assists in maintaining surveillance of firing and safety within the entire surface and vertical hazard space of the assigned range; shall be physically present at the training site. The RSO is a supervisory position conducted by a commissioned officer, warrant officer, staff noncommissioned officer, noncommissioned officer, or civilian equivalent. Civilian contractors may act as RSOs when approved by the CG. The RSO shall not participate in training. **THE RSO WILL NOT BE ASSIGNED OTHER DUTIES NOR FIRE A WEAPON**, and will be the last to leave the range following completion of firing and clean-up, ensuring the range is clear of all personnel and equipment. The RSO will ensure trash and brass are removed from the range after completion of training.
 - a. Training
 - The RSO must complete the TECOM DLRS and the MCIWEST-MCB CAMPEN RSCC.
 - Upon successful completion of the RSCC, ROD will enter those names into the data base.
 - Both DLRS and local certification are valid for three years.
 - b. Responsibilities
 - The RSO is responsible for the enforcement of applicable safety regulations contained in this Order, directives in the MCO 3570 series, and other applicable field, technical, and ordnance publications. The RSO shall be qualified on the weapon(s) or weapons system(s) being used.
 - The RSO must be able to identify the right and left lateral limits for all live fire ranges, and that each firing position observes the proper left and right limits for each firing lane. The RSO will ensure that no cross firing between firing lanes occurs.
 - The RSO shall maintain communications with LONGRIFLE at all times. When communications are lost, the RSO will cease all training until communications are reestablished.
 - RSOs shall conduct the check-in/check-out process for all ranges and training areas as outlined in paragraph 6002 of this Order.
 - The RSO shall ensure all weapons settings (i.e., headspace, timing, Fire Direction Center (FDC), and safety "T") are correct.
 - The RSO shall provide for a dedicated emergency vehicle and medical personnel for all training events.
 - c. The RSO for parachute and airdrop operations shall be current and qualified Jumpmaster performing as the Drop Zone Safety Officer (DZSO); the RSO/DZSO must be at the DZ during parachute/airdrop operations.
3. **Position Safety Officer** - In addition to OIC and RSO requirements, weapons qualified PSOs shall be assigned for all static live fire, live fire and movement, and live fire and maneuver training as follows:
 - a. Vehicle Weapons System. One PSO for each vehicle.
 - b. Crew Served Weapons on Static Range. One PSO for every two weapons.
 - c. Crew Served Weapons in a Support by Fire Position. One PSO for each weapon.
 - d. Dismounted Personnel on Static Range. One PSO for every four shooters.
 - e. Dismounted Personnel Conducting LFAMs or Live Fire and Movement. One PSO for every four shooters during day time and one PSO for every two shooters during night time.
 - f. CQB. One PSO for each active team in a shoot house.

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OIC/ RSO APPOINTMENT REQUIREMENTS – THE OIC SHALL BE OF EQUAL OR SENIOR RANK TO THE RSO

TRAINING EVENT	OIC Rank Requirement	RSO Rank Requirement
Battalion or Larger Live Fire Exercise	O-4 or Above	E-7 or Above
HC Smoke/Riot Control Agents (Outdoor)	E-6 or Above	E-5 or Above
CBRN Confidence Training (Gas Chamber)	E-6 or Above	E-5 or Above
AT-4 9mm Tracer Trainer, 9mm Spotting Rifle Shoulder Launched Multipurpose Assault Weapons (SMAW) Not Rocket, Light Anti-Tank Weapon Trainer, Light Armored Vehicle Brewster, Practice Hand Grenades, All 40mm TP, Laser Devices, Simulators, Trip Flares, Static Small Arms, Static Machine Guns, .50 Cal And Below	E-6 or Above	E-5 or Above
Field Artillery	E-7 or Above	E-6 or Above
LFAMs, Combined Arms Live-Fire Exercises, Aerial Gunnery, Air Defense Weapons	E-7 or Above	E-6 or Above
Aerial Gunnery & Air Defense Weapons; Flame-Throwers; Live Hand Grenades, Grenade Launchers, (All40mm HE); Live Mines, Demolitions; Tank & Fighting Vehicle Cannons; Recoilless Rifles	E-7 or Above	E-6 or Above
Mortars/USMC	E-6 or Above	E-5 or Above
<i>SRC-1 ITEMS: Javelin/AT-4/Dragon/Stinger, etc.</i>	E-7 or Above	E-6 or Above
Live-Fire Exercises Using Organic Weapons, Squad Company, Battery, and Troops. Direct Fire NON SRC-1 ITEMS: TOW, SMAW & ROCKET MISSILES	E-7 or Above	E-6 or Above
Parachute Ops/(HST) Ops/Dive Ops (Qualified Instructor)/Rappelling/HRST	X	E-4 or Above
Training Area/Bch Operations/Training Facilities (NO Munitions)	X	E-4 or Above
Training Area/Bch Ops/Training Facilities (With Munitions)	E-6 or Above	E-5 or Above
Mortars U.S. Army	E-6 or Above	E-6 or Above
Special Effects Small Arms Marking System	E-7 or Above	E-6 or Above
Steel Reactive Targets	E-7 or Above	E-6 or Above

Notes:

1. When CS is used in outdoor confidence courses, the RSO must have been trained in the CS chamber within the past year. The use of a 5702 CBRN Defense Officer and 5711 CBRN Defense Specialist is not required.
2. OIC and RSO must have been trained in the 2-Chlorobenzylidenemalononitrile (CS) chamber within the past year. An E-4 or above [chemical, biological, radiological, and nuclear (CBRN) MOS 5702/5711] must be present when conducting CBRN training in a gas chamber.
3. Civilian contractors may act as RSOs when approved by the Installation Commander.
4. Marine Corps Community Services activities may be conducted without an OIC, as long as a qualified MCB CamPen RSO is present and observing all activities.

Medical and Safety Vehicle Requirements

1. **Minimum Requirements.**
 - a. The minimum level of medical personnel to support military or federal governmental agency non-live fire training is a Combat Life Saver.
 - b. The minimum level of medical personnel to support military or federal governmental agency live fire training is a Navy Corpsman, or service level equivalent.
 - c. The minimum level of medical personnel to support Non-Federal Entity live fire training is an Emergency Medical Technician.
 - d. Unit commanders shall conduct a risk analysis to determine the requirement for a greater level of medical personnel support.
2. **Safety Vehicles.**
 - a. A wheeled vehicle designated as a safety vehicle shall be present for all training activity.
 - b. Privately Owned Vehicles (POV) shall not be used as safety vehicles.
 - c. When possible, the vehicle should be an ambulance.
 - d. At a minimum, the safety vehicle shall be capable of accepting a litter.

Range and Training Area (RTA) Access and Communications

1. ALL using Units/Agencies shall establish positive radio communication with LONGRIFLE before permission is granted to access to any Range or Training Area.
2. **CELL PHONES ARE NOT AUTHORIZED FOR USE TO MEET SAFETY COMMUNICATION REQUIREMENTS.**
3. **RSO WILL BE THE ONE TO CHECK IN**
4. Units/Agency on ranges shall identify themselves by unit/agency and range number.
5. Units/Agency in training areas shall identify themselves by unit/agency and training area.
6. **NO PERSONAL CALLS/ SIGNS.**
7. **In order to access ANY portion of the RTA, you must have:**
 - a. Positive radio communications with LONGRIFLE.

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Range and Training Area (RTA) Access and Communications

- b. Current copy of ROD Road and River Report on hand (Digital or Hard Copy).
 - c. CAMPEN MIM on hand (Digital or Hard Copy).
 - d. Current ROD TAAHR on hand (Digital or Hard Copy).
 - e. CAMPEN EOM on hand (Digital or Hard Copy).
 - f. Current Fire Danger Rating (Digital or Hard Copy).
 - g. Authorized vehicle.
 - h. Any unit RSO or site survey found without the required maps will immediately cease all training/activity and/or depart the training area or range.
 - i. Electronic copies of the EOM and Gas Lines Hazards Map are available at the Range Operations SharePoint site and in the Camp Pendleton RFMSS Library.
8. **Radio Checks:**
- a. Units in training areas/TFs/Beaches/etc., conducting **non-live fire** will conduct radio checks every hour at the **top of the hour**.
 - b. Units conducting **live fire** (including SESAMS) will conduct radio checks every hour at the **bottom of the hour**.
9. **Bivouac Status** - Units/Agency placed in a BIVOUAC status will **maintain and monitor the net throughout the night** and contact **LONGRIFLE** prior to the start of any event for the next day.

Range and Training Area (RTA) Emergencies and UXO

1. **Emergency Medical Procedures.**
 - a. All Emergency Calls Are Made to LONGRIFLE via Radio
 - b. Handled By Camp Pendleton Fire and Emergency Services
 - c. The Three (3) MEDEVAC Categories
 - Emergency / Urgent = Life threatening/Limb Loss
 - Priority = Non-Life threatening but warrants evaluation
 - Routine = Minor injuries
 - d. **ALL MEDEVAC'S must be reported to LONGRIFLE promptly, regardless of the category.**
 - e. If radio communication fails, units / agencies shall use any available telephone to contact **LONGRIFLE – 760-725-3975/4277**
 - f. **RED PYRO** is designated as the **ALTERNATE SIGNAL** for any emergency.
 - g. During a MEDEVAC, **ALL UNITS** on the **LONGRIFLE** safety net shall cease transmissions on the net until the MEDEVAC has been completed, or another unit requires MEDEVAC support.
2. **Wildland Fires:**
 - a. All personnel must recognize that training activities start over 200 wildland fires a year in our training areas (excluding fires in the Zulu, Whiskey and Quebec impact areas)
 - b. Wildland fires are potentially devastating to life and property
 - c. Wildland fires will cause all training to stop in the vicinity of the fire and potentially cause all training aboard the base to stop until the fire is out or under control.
 - d. **All Fires must be reported to LONGRIFLE.**
3. **Unexploded Ordnance (UXO)** - Follow these safety rules if you find a UXO:
 - a. Assume that all bombs, projectiles, canisters, and rockets are live ordinance.
 - b. Do not touch, run over, or disturb any UXO or duds.
 - c. Mark the UXO or dud with white engineer tape or a suitable substitute.
 - d. Determine Grid (10 digits).
 - e. **Notify LONGRIFLE Immediately.**

Vehicle Operator Safety

1. The Range and Training Areas (RTA) on Camp Pendleton consist of 89,013 acres of coastal and mountain terrain that supports a variety of military training.
2. The ecosystem includes beaches, bluffs, mesas, canyons, mountains and Southern California's only free-flowing river.
3. Also contained within the ecosystem are numerous unimproved training roads, washes, gullies and ditches, which are at times, hidden from view due to high grass and other vegetation.
4. It is essential to consider all vehicle hazards while planning training operations and exercises and conduct a leader's route and area reconnaissance prior to conducting any training.
5. Conducting a leader's route and area reconnaissance enables unit OICs and RSOs to ensure all personnel are thoroughly briefed, as per the unit ORM, on the known location of all potential hazards within the scheduled area prior to occupation.
6. If allowed by the Road & River Report, when traveling off-road, drivers may encounter **high grass or other vegetation** that could potentially **obscure hazards caused by seasonal rains** (such as erosion and heavy rutting) units should **utilize ground guides where needed/required.**
7. **Unit OICs and RSOs should report any and all potential hazards associated to any training area or training area road to LONGRIFLE. A training event or any other activity affected by the unsafe condition must be halted by the OIC and/or RSO until the unsafe condition has been corrected.**

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Environmental

1. Camp Pendleton is home to many endangered species, wetlands, and sensitive habitats which are protected by federal laws strictly enforced by local agencies
2. It is essential to consider environmental concerns while planning training operations and exercises
3. OICs shall ensure all personnel are thoroughly briefed, as per the ORM, on the location of all environmentally sensitive areas within the scheduled area prior to occupation.
4. Prior to any activity involving: soil excavation, grading, filling, or digging of fighting positions in or adjacent to protected habitat areas units must receive approval from Base Environmental at:
 - a. David McGraw (760)-725-9759; Scott McGuire (760)-763-7265, Rukia Dahir (760) 763-7945, and Justin Spedding (760)-725-9734.
5. **Environmental Training.**
 - a. Additional environmental training can be scheduled with Environmental Security by contacting Mr. Sammy Supnet by phone 760-725-9749 or email at sammy.s.supnet@usmc.mil
6. **Refueling:**
 - a. Use existing access roads to all sites.
 - b. No digging/grading is allowed at any site without approval from the Assistant Chief of Staff, Environmental Security.
 - c. Secondary containment for refueling operations will be constructed using sand bags or some other implement over which impermeable material is draped and secured.
 - d. All sites are to be left in their original condition after each refueling operation (no permanent tanks, containment berms, etc.).
 - e. Units choosing to use the designated sites will not be required to seek additional environmental approval.

Weather Warnings and Advisories

1. **Thunder Storms:**
 - a. **THUNDERSTORM ADVISORY** - Thunderstorms are occurring or imminent for convective activity within 50 NM of MCAS Camp Pendleton.
 - b. **THUNDERSTORM CONDITION I** - Thunderstorms are occurring or are imminent over the next hour, within 10 NM of MCAS Camp Pendleton.
 - c. **THUNDERSTORM CONDITION II** - Thunderstorms are occurring or are imminent over the next 6 hours, within 25 NM of MCAS Camp Pendleton.
2. **30-30 Rule** - Follow the "30-30 Rule" when outdoors.
 - a. When lightning is observed, count the number of seconds before thunder sounds; if it is less than thirty seconds, cease all training and seek shelter immediately.
 - b. Take shelter in a building or vehicle
 - c. If no structure is available reach an open, low area and squat down. Do not stand near tall, lone trees or stand up in a flat open area.
 - d. Avoid tall structures like power lines, towers, tall trees, etc.
 - e. Stay away from natural lightning rods (e.g. metal equipment)
 - f. Stay away from bodies of water.
 - g. After the storm dissipates, wait another thirty minutes before resuming outdoor activity.
2. **First Aid:**
 - a. If someone is struck by lightning, contact LONGRIFLE:
 - b. A person who has been struck by lightning may have a charge that can shock other people.
 - c. If the victim is burned, provide first aid treatment.
 - d. Provide CPR if the person has stopped breathing or if their heart has stopped.
3. **Report and avoid downed utility lines.**
4. **Flood Alert:**
 - a. Due to significant amounts of precipitation in the mountains around MCB CamPen, flash flooding may occur. Range Control will monitor flood conditions set by the AC/S G-3/5. The following Alert Conditions apply:
 - Alert Condition III. Rainfall is reported in Riverside or San Diego Counties of one to two inches on wet or saturated ground; four inches on dry ground; or local flash flood conditions.
 - Alert Condition II. Rainfall exceeds previous condition and visible flooding is detected upstream; or weather services forecast heavy thunderstorms, flash flood watches, or flash flood warnings.
 - Alert Condition I. Rainfall exceeds previous condition with bridges, roads, or culverts overflowing with water. Upstream fire departments are reporting local flooding.
 - Unless otherwise directed by the AC/S G-3/5, ranges and training areas shall be secured upon reaching Alert Condition II.
5. **Coastal Hazards:**
 - a. Coastal Flood Warning - Coastal flooding is occurring or is imminent in the next 12 hours, which poses a serious threat to life and/or property.
 - b. Coastal Flood Watch - Coastal flooding is possible in the next 24 hours, which would pose a serious threat to life and/or property.
 - c. Coastal Flood Advisory - Minor coastal flooding is occurring or is imminent in the next 12 hours, which poses a threat to life and/or property.
 - d. Storm Surge Warning - Localized heavy flooding due to storm surge caused by a tropical cyclone is occurring or is imminent in the next 12 hours, which poses a threat to life and/or property.
 - e. High Surf Warning - Destructive, pounding surf poses a danger to those in and near the water and may damage property near the shoreline.
 - f. High Surf Advisory - Pounding surf poses a danger to those in the water.
 - g. Rip Current Statement - Describes a risk of rip currents present in the specified area (may be issued as a beach hazards statement).

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Fire Danger Ratings (FDR)		
FDR	Caution To Be Exercised	Necessary Precautions
LOW	Use normal caution.	**Units SHALL adhere to restrictions promulgated by RCO.**
MODERATE	Use normal caution. Fires will start easily.	**Units SHALL adhere to restrictions promulgated by RCO.**
HIGH	Use extra caution. Fires will start very easily.	<ul style="list-style-type: none"> The use of tracers may be temporarily suspended. Handheld or grenade launched airborne pyrotechnics ARE NOT authorized. For interior Training Areas - blanks & smoke (used in an ammo can) are authorized in cleared areas. For perimeter Training Areas (Bravo I, Bravo II, Charlie, Delta, Echo, Foxtrot, Golf, Hotel, India, Juliet, Lima, November and Sierra) ordnance or flame producing devices (including smoking) ARE NOT authorized. Smoking is permitted only in cleared areas or on fire breaks of interior raining areas. <p>**Units SHALL adhere to any additional restrictions promulgated by RCO.**</p>
VERY HIGH	Use extreme caution. Fires are very hard to control.	<ul style="list-style-type: none"> All previous restrictions apply. Authorized areas for increment burning will be identified by the RCO. Smoking is permitted only in cleared areas or on fire breaks of interior training areas. <p>**Units SHALL adhere to any additional restrictions promulgated by RCO.**</p>
EXTREME	Flash condition. This is the highest class of fire danger. Fires started are practically impossible to extinguish and usually continue until danger rating conditions improve or burn themselves out. The utmost caution with fire-producing agents and devices must be exercised at all times.	<ul style="list-style-type: none"> <u>The firing of high explosives, pyrotechnics, incendiaries, or other ammunition likely to cause fires is prohibited unless specifically authorized by RCO.</u> The use of any type of training/live ordnance (to include blanks), heat or flame-producing devices (heaters, welders, stoves, or open fires) in training areas is strictly prohibited unless authorized by RCO. No off-road activities by vehicles (HMMWVs, etc.) are permitted without authorization from RCO. <u>Firing units will exercise maximum precautions to prevent fires from starting. Smoking shall not be permitted under any circumstances.</u> <p>**Units SHALL adhere to any additional restrictions promulgated by RCO.**</p>
<p>**The RCO will publish additional restrictions via the Range Control SharePoint site and OPSGRAM. Units should refer to this guidance prior to conducting training.</p> <p>**Note: Fire breaks are to remain clear to allow transition or access by CPFD personnel when responding to fire emergencies.</p>		

Specific Non-Live Fire Training Events
<ol style="list-style-type: none"> 1. Rappelling, Fast Rope and HRST Operations <ol style="list-style-type: none"> a. RSO Must be a Rappel Master/Rope Master/HRST Master b. RSO may serve as both RSO and a units SIO. c. Ensure that the proper number of certified Rappel/Rope/HRST masters are present at all times c. Assault Climbing Events <ol style="list-style-type: none"> a. RSO Must be an Assault Climber or Mountain Leader b. Ensure that the proper number of certified Assault Climbers are present at all times d. Para-Ops <ol style="list-style-type: none"> a. The RSO must be a qualified Jump Master. b. The RSO & DZ Commander must be present within the Drop Zone while training is being conducted. e. Laser Operations <ol style="list-style-type: none"> a. Certified LRSO MUST be present b. RSO may serve as both LRSO and RSO. c. Ensures unit personnel employing lasers receive thorough safety briefings. d. The LRSO will provide a copy of the laser-firing log to the RCO 24 hours following the completion of training. f. Force-on-Force: <ol style="list-style-type: none"> a. That no personnel have conducted any live fire training within the past 24 hours. If any have, than they shall not be permitted to train. b. All magazines are inspected to ensure no live ammo is present. c. All ammunition delivered is either blank or approved SESAMS munitions. d. All weapons are inspected to ensure that all are in condition 4 prior to training. e. That all personnel who arrive after the safety brief is conducted and inspections have taken place will be given a safety brief and all magazines and weapons are inspected.

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Personal Protection Equipment (PPE) Requirements

1. Training casualties on operational ranges must be minimized through the use of appropriate Personal Protective Equipment (PPE).
2. **PPE Level 0 is the minimum requirement for accessing the RTA.**
3. Refer to specific orders, directives and range special instructions as to the level of PPE to be used with specific weapon systems and type of training.
4. PPE Level 1 **MUST** be worn for the following live fire training events:
 - a. Live fire and movement and maneuver
 - b. High explosives or grenades
 - c. Machine guns
 - d. Close Quarters Battle in shoot houses

PPE Level	Protection Required
0	Standard utility uniform, hearing/eye protection
1	Body armor and helmet, hearing/eye protection
2	Body armor with front/back enhanced small arms protective insert plates and helmet, hearing/eye protection
3	Body armor with front/back/side enhanced small arms protective insert plates and helmet, hearing/eye protection

Note: Civilian attire equivalent for PPE Level 0 is closed toed shoes, long trousers/pants and at a minimum, quarter length sleeved shirts.

Ammunition

1. **Joint Inventory shall** be conducted by OIC and the Ammo tech (2311).
 - a. DD Form 1348-1A (Official Supply Document From ASP) & Delivery of Ammunition and NAVMC 11381
2. **Ammo must only be delivered to appropriate ranges and training areas**
3. Drivers must have completed the explosive driver's course and the Ammo Guards must be armed.
4. All Security Code One (or "Category One") items (e.g., AT-4, LAW, etc.) shall be positively controlled by an E-6 (or above), from ASP pick-up to expenditure/return of unused ammunition.
5. The E-6 (or above) shall sign, escort, and observe use while maintaining control at all times. Any unused Category One item shall be returned to the ASP by an E-6 (or above).
6. Category One item control may be turned over to another E-6 (or above) utilizing the DD Form 1907, Signature Tally Record, which is included with every Category One item.
7. **Ammo Expenditure Report/Accountability is conducted by the Range OIC**
 - a. NAVMC 11381
 - Nomenclature
 - Lot Number
 - Quantity
 - Requested/Received - **Filled Out at range by OIC prior to going hot**
 - Expended
 - Turned In
8. **Field ASP/AHA**
 - a. Submit request to establish a Field ASP/AHA to RCO (7 Working Days)
 - b. The Field ASP OIC shall ensure that all ammo is properly segregated and appropriate firefighting equipment is present.
 - c. The guard force shall consist of the following:
 - d. SNCO
 - e. Corpsman
 - f. **Watch Standers (Per AA&E Security Requirements)**
 - g. All ammo will be issued to appropriate OICs on appropriate ranges.
 - h. NAVMC 11381s will be maintained by each OIC on each range.
9. **Report of Ammo Expenditure**
 - a. Prior to departing or going cold on a range, the OIC shall report all ammunition expended.
 - b. The Expenditure report will include the following:
 - **DODIC**
 - **Nomenclature**
 - **Quantity Expended**
 - c. OICs will utilize their NAVMC 11381 to provide the report.

Ammunition And Explosives (AA&E) Security Requirements within the RTA

1. Ammunition that is authorized to be fired on a particular range may be staged on that range. At a minimum there shall be two person watch, one Non Commissioned Officer (NCO) and one armed, for CAT I and CAT II material.
2. In addition to the above, the receipt of SRC I material must be accomplished by individuals meeting the personnel requirements of MCO 4400.201 V-7. The movement of SRC I material must always be under armed surveillance accompanied by a SNCO or above (as recorded on the DD 1907). This includes on-station movements and temporary storage at range location.
3. CAT III and IV material does not require the two person watch to be armed. The watch shall maintain hourly radio checks with LONGRIFLE.

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Category I	Category II	Category III	Category IV
Explosive complete rounds for Category I missiles and rockets. Nonnuclear man-portable missiles and rockets “in a ready to fire” configuration	Hand or rifle grenades, high explosives, and white phosphorus. Mines, antitank, or antipersonnel, Explosives used in demolition operations.	.50 caliber and larger, with explosive-filled projectile, incendiary, and fuzes.	Ammunition with non-explosive projectile, illumination, smoke, and tear gas CS)/CN Riot control agents, 100-pound package or less.
Two person watch, one Non Commissioned Officer (NCO) and one armed , shall maintain hourly radio checks with LONGRIFLE.		Two person watch, one Non Commissioned Officer (NCO) not required to be armed , shall maintain hourly radio checks with LONGRIFLE.	
Category I material MUST always be under armed surveillance accompanied by a SNCO or above.			

Specific Live Training Events

1. In addition to OIC and RSO requirements, **weapons qualified PSOs** must be assigned for all static live fire, live fire and movement, and live fire and maneuver training as follows:
 - a. Vehicle weapons system - one PSO for each vehicle.
 - b. Crew served weapons on static range - one PSO for every two weapons.
 - c. Crew served weapons in a Support by Fire Position - one PSO for each weapon.
 - d. Dismounted personnel on static range - one PSO for every four shooters, day or night.
 - e. Dismounted personnel conducting Live Fire and Maneuver or Live Fire and Movement - one PSO for every four shooters during day time; one PSO for every two shooters during night time.
 - f. Close Quarters Battle – One PSO for each active team in a shoot house.
2. When **Range Guards** are not in sight of the RSO they are required to be posted in pairs of two with positive communication with the RSO.
3. **Authorized munitions** on RETS, PITS, and La Rue Targets:
 - a. RETS Targets – .50 Caliber and below (API or APIT) NO A606 RAFUS
 - b. PITS Targets – 7.62mm and below
 - c. La Rue Targets – 7.62mm and .50 Caliber (Target Type Specific) RAFUS (A606) is **UNAUTHORIZED** on La Rue targets.
4. **Demolitions Ranges**
 - a. OIC ensures that the total NEW of explosives in demo pit does not exceed the range regulations.
 - b. OIC will calculate the max Ord for the total NEW to be detonated.
 - c. RSO verifies all calculations.
5. **Safety of Use Memorandums (SOUM)**
 - a. Are required to be read and on hand for specific training
 - b. SRT, MILES, J-TAC, Flash Bangs, TOW, SMAW-NE, APOBS, etc.
6. **CS Gas & HC Smoke:**
 - a. RSO must be at least an E-5 or equivalent
 - b. Training shall be conducted by an NCO or above with an MOS of 5702, 5711.
7. Ensure that CS and Smoke Producing Devices are not used:
 - a. 1000 meters east of I-5 freeway or anywhere west of the I-5
 - b. At a distance less than 500 meters from all hard surface roads and built-up areas.
 - c. Units **MUST** submit a “CS Overlay” to Range Scheduling for RCO approval prior to use.
8. **Powder Burning**
 - a. FDR LOW, MODERATE, and HIGH: Burn Powder bags/Increments in scheduled AFA/MFA.
 - b. FDR is VERY HIGH or EXTREME: The unit conducting training shall burn powder at **AFA 16, 31, 43, MP1, MP6 MFA 14, R218A & R215A Burn Pits and R408 Concrete Pad** only, unless coordinated with LONGRIFLE.
 - c. During all powder burning activities, powder shall be burned in areas cleared to mineral earth, **and no closer than 200 feet to vegetation.**
 - d. Powder Burn Quantities: **Arty - not to exceed a total of 40 bags. Mortars – not to exceed 100 increments.**
 - e. Units shall have fire extinguishers, water, and shovels at the burn site.
 - f. Units shall **contact LONGRIFLE for permission prior to burning.**
 - g. **During FDRs of VERY HIGH and EXTREME, units shall remain at the burn site for 30 minutes after the last burn, ensuring no fires have been started in the surrounding vegetation**
9. **Battle Special Effects (BFX).**
 - a. **BFX are defined as:**
 - Any Black Powder Device
 - Any Propane/Black Powder IED Device
 - Any RPG Simulator Device
 - b. **BFX RM**
 - The Units Operation Risk Matrix shall list all BFX to be utilized.
 - The ORM will be signed by the Unit Commander, Unit OIC & RSO and the BFX Supervisor.
 - It is critical that all BFX activities are clearly listed and procedures have been developed that adhered to the supporting publications.

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Specific Live Training Events

- c. **Specific BFX Requirements OIC (GySgt (E-7) And Above):** OIC Shall:
- Ensure that Only BFX listed and approved by the RCO is used. Give final authorization to fire each BFX IED or RPG.
 - Visually approve the location of all BFX and approved the designation of the minimum safety distances.
 - Ensure that reflective over pressures are calculated and minimum safety distances are adhered to.
- d. **RSO (SSgt (E-6) & Above):** RSO shall:
- Visually verify the location of all BFX and the designation of the minimum safety distances approved by the OIC.
 - BFX Site Supervisor & Operators:
 - All BFX operators & Supervisors shall attend the Camp Pendleton BFX Operators Class. The Site Supervisor shall be appointed via a letter from the contracting office.
 - All other operators shall hold a current state pyrotechnics card. Personnel that are not card holders may assist only.
 - BFX supervisor and operators shall check-in with the unit OIC and ensure that all IEDs are briefed and that all required safety measures are adhered to.
- e. At no time shall any BFX be used in any enclosed space.
- f. **At no time shall any BFX be used without “eyes on”.**

Simulators

M115A2

1. DO NOT use the M115A2 projectile ground-burst simulator near personnel due to potential hazard from fragmentation. Ensure the simulator is not thrown to any point within 35 meters of unprotected personnel.
2. DO NOT activate the M115A2 in loose gravel, sticks, or other materials that could become projectiles. DO NOT throw into dry leaves, grass, or other flammable materials.
3. For protection, personnel throwing the M115A2 simulator must wear the following items: ear protection, safety eyewear, and a protective helmet and vest. The user must wear a standard-issue leather glove when employing this simulator.

M116A1

1. The M116A1 simulator manufactured before 2013 are white in color and have a 30-meters surface danger zone due to end cap displacement, and simulators manufactured after 2013 are yellow in color with a surface danger zone of 15 meters.
2. DO NOT activate the M116A1 in loose gravel, sticks, or other materials that could become projectiles. DO NOT throw into dry leaves, grass, or other flammable materials.
3. For protection, personnel throwing the
4. M116A1 simulator must wear the following items: ear protection, safety eyewear, and a protective helmet and vest. The user must wear a standard-issue leather gloves when employing this simulator.

DODIC L594 **M115A2 Ground Burst Simulator**

The M115A2 projectile ground-burst simulator replicates the detonation of artillery and mortar projectiles or artillery-type rockets. Activate by pulling its M3A1 friction delay igniter cord and immediately throw 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.

EXPLOSIVES
1.5

DANGER: DO NOT TAMPER WITH OR REMOVE EXPLOSIVE CONTENTS
SIMULATOR, PROJECTILE GROUND BURST, M115A2
FIRING INSTRUCTIONS
 Hold Simulator in throwing hand wearing a standard issue leather glove with

DODIC L601 **M116A1 Hand Grenade Simulator**

Use the M116A1 hand grenade simulator to create battle noises and flashes during training. It differs from the ground-burst simulator in that it is shorter and does not emit a high-pitched whistle before detonation. Throw the hand grenade simulator in the same manner as a live grenade. It creates a flash and loud report 5 to 10 seconds after ignition.

EXPLOSIVES
1.3B

DANGER: DO NOT TAMPER WITH OR REMOVE EXPLOSIVE CONTENTS
SIMULATOR, HAND GRENADE, M116A1
FIRING INSTRUCTIONS
 Hold Simulator in throwing hand wearing a standard issue leather glove with

Components and Characteristics	Details
Nomenclature	Simulator, Hand Grenade, M116A1
NSN	1370-00-752-8124
Body/Colors and Markings	Kraft paper / white overall with label and black markings
Total Weight	3.2 ounces
Pyrotechnic Charge	Photoflash powder
Functioning Time	Burst 5–10 seconds after ignition
Effect	Explosive blast

Legend: DODIC – Department of Defense identification code, NSN – national stock number

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Contractor Supported Ranges

1. Contractor support is at **NO COST** to the unit.
2. Contractor support is **REQUIRED** to be scheduled if the unit intends to use the Range Public Address System or Automated Targets.
3. The contractor times **MUST** be scheduled in RFMSS, utilizing the **"USER FIELDS"** tab, for the duration of live-fire training.
4. If unit fails to schedule contractor times, use of the sound system or automated targets will **NOT** be authorized.
5. If the unit is a "no-show" one hour after the scheduled start time, the contractor can depart the range and is not required to return.
6. For further information concerning contractor support, contact TSD at 760-725-4444.

Aviation Training Events

1. **UAS Operations**
 - a. UAS **MUST** have SECDEF Cyber Security Waiver.
 - b. Other than FCC Part15 compliant "Drones", unit must obtain frequency approval from Base Frequencies Manager before scheduling each event.
 - c. UAS RSO must be qualified of the type of platform that is flying.
 - d. Multiple UAS operating within the same ACA require only (1) RSO as long as the following control measures are being met:
 - **RSO shall personally verify home location data for each platform prior to launch.**
 - Positive communication is being maintained with other launch sights.
 - e. **Standard ACA UAS Training** must be scheduled in RFMSS at least 7 working days prior to event.
 - f. **Non-Standard UAS training** must be scheduled at minimum 14 working days from the event.
 - g. **Launch/Recovery Site needs to be scheduled separately from the ACA.**
 - h. Submit UAS Brief Sheet & Overlay to RCO 14 Days Prior to Event.
 - i. UAS operating at Camp Pendleton shall remain within R-2503A and/or R-2503B.
 - **Available for use 0600-2359 daily**
 - Extended Airspace request must be submitted NLT 5 working days out from event.
 - j. RSO will be in compliance with both Technical and Field Manuals specific to the UAV platform IOT preclude any electromagnetic interference (EMI).
 - k. UAV operations shall be conducted in Visual Metrological Conditions (i.e. UAS are not authorized to fly during heavy cloud/fog events).
 - l. **UAS equipped with transponders shall be set to 4036.**
 - m. **Air Sentry posted at all times.**
3. **TACP:**
 - a. FAC/JTAC must submit a FAC brief sheet and with SIMCAS overlay (if conducting SIMCAS) no later than 14 working days prior to event.
 - b. Brief sheet and overlay will be submitted to Range Scheduling at pndl_OTrangescheduling@usmc.mil

TACP OIC & RSO Requirements

OIC/RSO FAC/JTAC/LSSO	Controls			
	With No Ground Mark – No Laser	With No Ground Mark – With Laser	With Ground Mark – No Laser	With Ground Mark – With Laser
FAC/JTAC <small style="color: red;">From Grd Unit</small>	Yes	Yes	Yes	Yes
LRSO <small style="color: red;">From Grd Unit</small>	No	Yes	No	Yes
OIC <small style="color: red;">From Indirect Fire Grd Unit</small>	No	No	Yes	Yes
RSO <small style="color: red;">From Indirect Fire Grd Unit</small>	No	No	Yes	Yes
Certified FSC <small style="color: red;">From Grd Unit</small>	No	No	Yes	Yes

Occupation of Training Areas, Training Facilities and Ranges

1. **As a Reminder, In order to access ANY portion of the RTA, you must have:**
 - a. Positive radio communications with LONGRIFLE.
 - b. Current copy of ROD Road and River Report on hand (Digital or Hard Copy).
 - c. CAMPEN MIM on hand (Digital or Hard Copy).
 - d. Current ROD TAAHR on hand (Digital or Hard Copy).
 - e. CAMPEN EOM on hand (Digital or Hard Copy).
 - f. Current Fire Dander Rating (Digital or Hard Copy).
 - g. Authorized vehicle.

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Send Occupation Information								
Contact LONGRIFLE		RSO Information			OIC Information			
		Range ID	LName	Rank	Range ID	LName	Rank	
<ol style="list-style-type: none"> 1. Unit (As Scheduled in RFMSS) 2. Training Area, Range or Facility requesting to Occupy. 3. Number of Personnel and Vehicles 4. Ammunition to Be Utilized (Do Not Send DODICS unless requested). 5. Request Occupy, Training or Hot Status 		<ol style="list-style-type: none"> 1. A typed ORM assigning the OIC/RSO's and signed by the command (Bn/SQD CO) must be on hand in order to conduct any type of training. 2. Before going hot have all ammo annotated on NAVMC 11381 with the OICs information filled out on top. 3. Units must possess and utilize a compass and a Camp Pendleton MIM (map) to identify the lateral limits for all non-KD ranges. 4. RSO and OIC must read and understand all Regulations pertaining to the Range. 5. Unit MUST have Range Special Instructions ON HAND. 6. Verify Range Flag is posted. 7. RSO must verify Medical Support and Safety Vehicle are present. 						
Radio Checks								
<ol style="list-style-type: none"> 1. Non-Live Fire <ol style="list-style-type: none"> a. Radio checks at the Top of every Hour. 2. Live Fire <ol style="list-style-type: none"> a. Radio checks at the Bottom of every Hour. 		<ol style="list-style-type: none"> 1. Positive Two Way RADIO Communication is required at all Times. NO CELL PHONES! 2. If communications is lost with LONGRIFLE for any reason, then cease training until communication with LONGRIFLE can be re-established! 						
Example Radio Transmission								
<ol style="list-style-type: none"> 1. Longrifle this is (Unit) _____ in Training Area _____ at Grid _____ 2. Request to Occupying the Following Training Areas. _____ 3. Type of Training _____ Number of Personnel _____ 4. We (will / will not) be using Blanks and or PYRO. (Verify types of Blanks/Pyro) 5. RSO (Range ID) _____ (Last Name) _____ (Rank) _____ 6. OIC (Range ID) _____ (Last Name) _____ (Rank) _____ (If needed) 								
OIC and/or RSO Change Over								
<ol style="list-style-type: none"> 1. Ensure that new OIC and/or RSO have read have read and understand all Regulations pertaining to the Training. 2. Range Special Instructions are located on the range in the ammo-can. 3. RSO Contacts LONGRIFLE. <ol style="list-style-type: none"> a. Send New OIC and/or New RSO Range ID, LName and Rank. 								
Example Radio Transmission								
<ol style="list-style-type: none"> 1. Longrifle this is (Unit) _____ in Training Area _____ 2. Request to change OIC/RSO. 3. New RSO (Range ID) _____ (Last Name) _____ (Rank) _____ 4. New OIC (Range ID) _____ (Last Name) _____ (Rank) _____ (If needed) 								
Departing Training Areas, Training Facilities and Ranges								
<ol style="list-style-type: none"> 1. Police Call and accountability of all personnel/equipment is complete prior to inspection. 2. The unit must call for a police call inspection only when they have enough transportation to be able to depart the range with all gear and personnel directly after passing the inspection. 3. Radio Checks must remain in effect until you have reached the nearest hard surface road. 								
MEDEVAC Procedures								
Emergency Contact Number: LONGRIFLE RANGE OPERATIONS (760)-725-4277 Frequencies: Primary (FM 40.35) Alternate (FM 30.35)								
<ol style="list-style-type: none"> 1. Stop Training. 2. Provide Immediate Aid. 3. Contact LONGRIFLE. 								
Provide the Following Information								
Number Injured		Types of Injuries		Cause of Injury		Status of Injured		
						Breathing/ Bleeding Conscious/ Un-Conscious		
Injured		Destination of Injured		Unit POC				
Sex	Age			Name	Phone			

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69



See
Inset
Map

New RSO Test Site Effective 01 September 2019

RSO Test
Building
#25166

RSO Test
Parking

36° 86' 00" N

468° 00' 00" E

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RANGE INSPECTION SHEET

03 November 2022

Force-on-Force training is unauthorized within a 24 hour period from the end of the live fire event.

Date:	Time Arrived:	Time Departed:	Units Departing Date:
Unit:	Range:	Date On SPINS:	FDR:
OIC/FAC		RSO/LRSO/HRST/FAC	
Rank:	Rank:		
Name:	Name:		
Range ID:	Range ID:		
Phone:	Phone:		
Positive Comm w/LONGRIFLE (Radio Only)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Unit has SPINS on hand. (Read and Understood)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Range Flag posted, Hot Status Light On (At Night)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
ORM On Hand (Typed & Signed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Safety Vehicle, Nonparticipating Corpsman	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Range Fan Limits Identified (Remarks on method)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Range Guards with Positive Comm (If applicable)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Gates Locked (If applicable)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
NAVMC 11381 (Filled out prior to going HOT)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Ammo Properly located separated by DODICs & lot #	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Live Ammo & Blanks/SESAMS Stored Separately	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Misfire Can/Pit Properly Located and Marked	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Data Card for AFA, MFA, and MP (Check FDC)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Do you have Contractor Support for your Targets?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Targets Types	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Range pass POV's (Truck/SUV 4x4)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Type of AMMO _____			
<input type="checkbox"/> The RSO has conducted a SAFETY/UXO BRIEF.		<input type="checkbox"/> Correct all WPNS Malfunctions per the TM/FM and Unit SOP's	
<input type="checkbox"/> Briefed FDR, Wildlife, and Environmental Sensitive Areas.		<input type="checkbox"/> Colored Map, EOM Map, Road River and TAAHR Report.	
<input type="checkbox"/> Have the Weapons been LTI/PFI'ed.		<input type="checkbox"/> All L/F Training IAW Current DA PAM 385-63 & SOUMS.	
<input type="checkbox"/> Report all FIRES to L/R with SIZE & LOCATION		<input type="checkbox"/> RSO/OIC will identify type of demo training: Bare Charge, Tamped Charge, Non-Robust, or Robust.	
<input type="checkbox"/> PSO's are WPNS Qualified & Briefed on their responsibilities.		<input type="checkbox"/> Eye and Hearing Protection. (PPE Level___)	
<input type="checkbox"/> OIC is responsible to observe all Mis-Fire Procedures.		<input type="checkbox"/> Unit shall call LONGRIFLE in the case of any Medevac.	
<input type="checkbox"/> PSO's 1:4 DAY 1:2 NIGHT SBF 1:1		<input type="checkbox"/> Conduct a good Police Call, Line out and Shake Down	
THIS INSPECTION DOES NOT RELIEVE THE OIC & RSO OF ANY RESPONSIBILITIES TO SAFELY EXECUTE ANY TRAINING EVENT IAW AR 385-63/16April2014, MCO 3570.1C/30January2012, MCIWEST-MCB CAMPENO 3500.1B 05 January 2022, and any applicable SOUMS, FMs, TMs, and Range Special Instructions or DIRECTIVES from the RCO.			
Inspector:	OIC:	RSO:	
	OIC:	RSO:	

REMEMBER!!!

<p>Grenade ranges must go cold 1 Hour prior to sunset. Ensure there is no standing water or mud in grenade throwing pits.</p> <p>RSO is required to check all gun settings (head space and timing, FDC/Gun line safety T's etc.).</p> <p>All Mortar Increments are to be burned IAW BO 3500.1B, FDR, & MCRP 3-15.2A/FM 23-90.</p>	<p>Helmet and flak shall be worn for the following live fire training events:</p> <ul style="list-style-type: none"> ➤ Live fire and movement/maneuver ➤ High explosives or grenades ➤ Machineguns, MPs, MFAs, AFAs. ➤ Close quarter battle in shoot houses <p style="text-align: center;">For all Weapons Incidents</p> <ol style="list-style-type: none"> 1. FREEZE ALL DATA AND FALL TO THE REAR OF THE PIECE. 2. Contact LONGRIFLE. 	<p>CS chambers require a NCO MOS 5711. Ensure the Unit waits 30 Mins. Before departure.</p> <p>SESAMS requires everyone within 150m safety perimeter shall wear protective equipment.</p> <p>IIT requires two Fire Evacuation Drills Prior to going into a hot status.</p>
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___OIC & RSO are required to be on the range and observing all training the entire time the range is Hot.

___If an incident occurs involving a weapon, OIC & RSO shall ensure the weapon is left in the condition it was in when the incident occurred; do not attempt to clear the weapon or remove it from the Line.

___Verify/Confirm the Range has been set-up is IAW the Range and Training Regulations, and paying particular attention to the Special Instructions portion of that range.

___OIC & RSO understand all conflicts pertaining to this range to include when aircraft are scheduled.

___OIC & RSO ensure dry runs have been conducted in like terrain and light levels prior to live fire training.

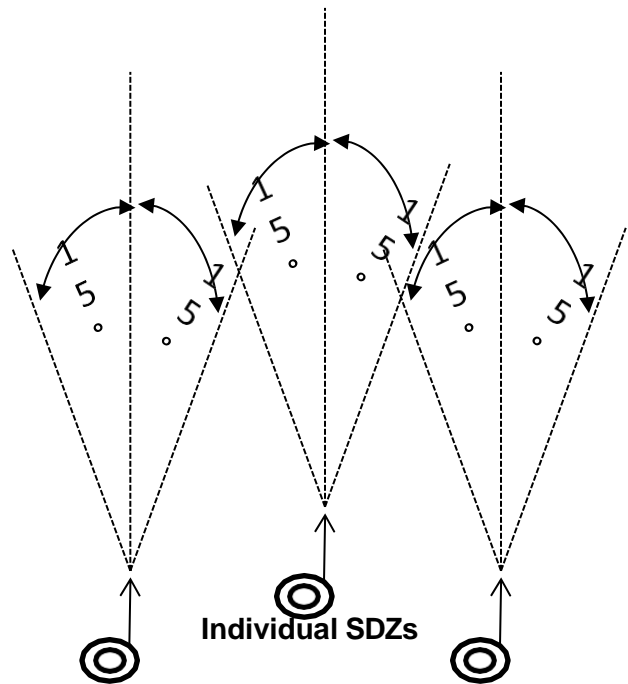
___ OIC & RSO shall ensure no-one ever goes beyond the stated limit of advance or into any Dedicated High Hazard Impact Areas.

___OIC & RSO ensure all weapons are condition 4 before departing any firing line or limit of advance/cease firing line.

___OIC/RSO Need to call in any duds into LONGRIFLE with a ten digit grid. Ensuring to keep an accurate count and do not exceed 5% of total amount per LOT# of HE ammunition.

___OIC to verify mis-fire pits are clear of ordnance prior to departing the range.

NO FIRING OUTSIDE LATERAL LIMITS OF LANE
OR FIRING POINT, NO CROSS LANE FIRE.



___Muzzle Awareness/Flagging

___Safety Rules

Machinegun Immediate Action

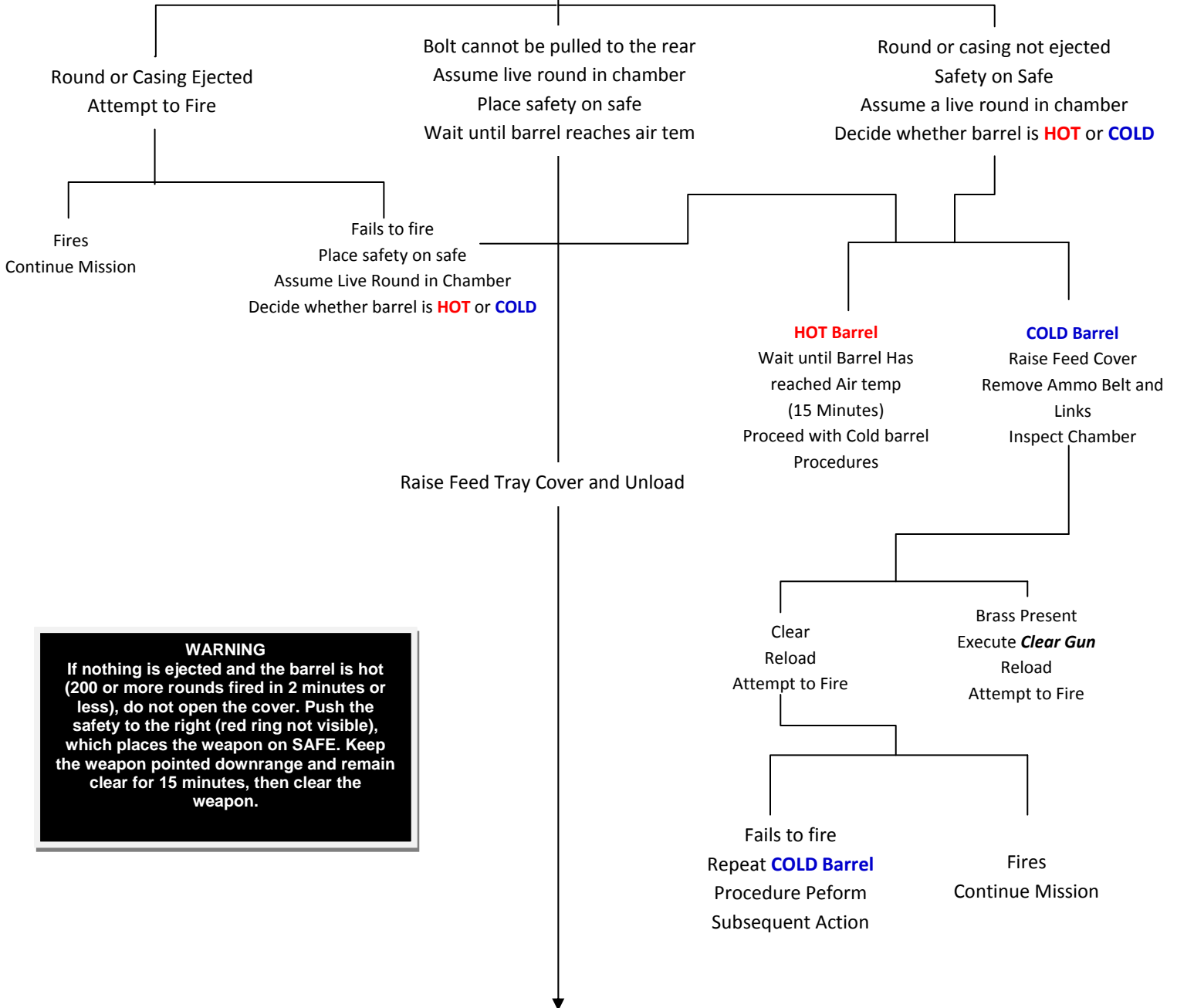
When Weapon Fails To Fire

Wait 5 Seconds (Hangfire)

Within next 5 Seconds, Observe Ejection port

Pull Bolt to the Rear

Return Cocking Handle



WARNING
 If nothing is ejected and the barrel is hot (200 or more rounds fired in 2 minutes or less), do not open the cover. Push the safety to the right (red ring not visible), which places the weapon on SAFE. Keep the weapon pointed downrange and remain clear for 15 minutes, then clear the weapon.

Remedial Action

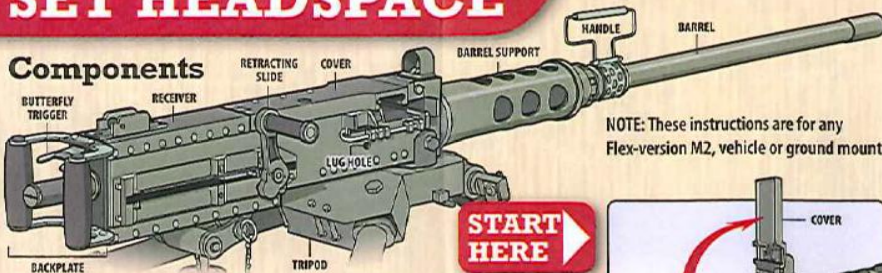
Action taken when immediate action fails to reduce the Stoppage.

Usually requires filed stripping the gun and a limited inspection

In order to determine and eliminate the cause of the stoppage.

SET HEADSPACE

Components



NOTE: These instructions are for any Flex-version M2, vehicle or ground mounted.

WARNINGS

■ Clear weapon each time you check weapon.



■ Failure to properly set Headspace can result in an explosion and possibly cause injury or death.

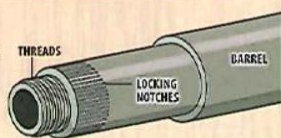
■ Always set Headspace first and Timing second.



REMEMBER

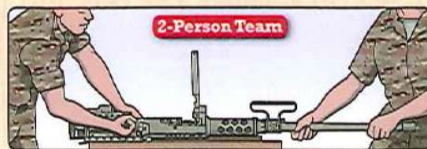
Headspace and Timing should be checked and adjusted before firing weapon, after assembling weapon and after replacing barrel.

Before inserting Barrel, inspect Threads and Locking Notches for dents and nicks.



1 Person

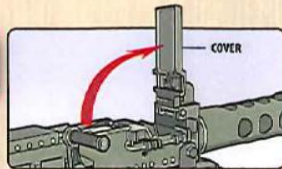
Headspace and Timing can be set by 1 person or a 2-person team.



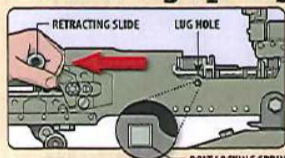
2-Person Team

START HERE

1 Raise Cover



2 Align Bolt and Bolt Locking Spring Lug



Pull Retracting Slide back until Bolt Locking Spring Lug can be seen through Lug Hole.

BOLT LOCKING SPRING LUG (Attached to carriage inside.)

3 Attach Barrel



Hold Retracting Slide in position and screw Barrel COUNTER-CLOCKWISE until it stops.

Locking Notches make clicking sounds as Barrel tightens.

4 Check Barrel

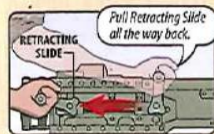
Screw Barrel COUNTER-CLOCKWISE—2 CLICKS. Release Retracting Slide. Test: Twist Barrel back and forth; it should NOT rotate.



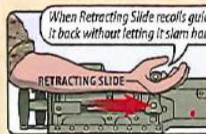
2 CLICKS

5 Charge Weapon

Release Retracting Slide—DO NOT SLAM.

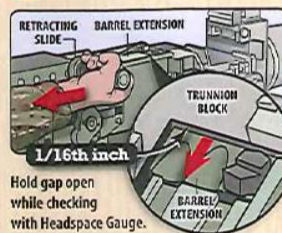


Pull Retracting Slide all the way back.



When Retracting Slide recalls guide it back without letting it slam hard.

6 Retract Slide and Hold



Hold gap open while checking with Headspace Gauge.

1/16th inch

Pull Retracting Slide back until Barrel Extension moves slightly.

Do not allow gap between Barrel Extension and Trunnion Block to be more than 1/16th inch.

Gauges

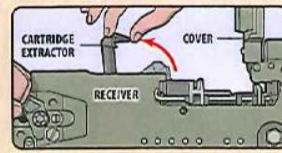
Headspace Gauge: Two-sided bar with GO and NO-GO ends.



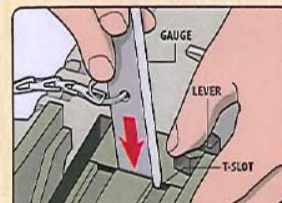
Timing Gauges: Used to set Timing (see opposite side)

DO NOT insert any object other than Headspace Gauge.

7 Check Go Gauge



Raise Cartridge Extractor up. It is the long, claw-like lever on left side.



Push Lever next to T-Slot to the side.

Insert GO end of Headspace Gauge into T-Slot at end of Barrel Extension.

If GO end of the Gauge DOES NOT insert all the way to Ring, Barrel is **TOO TIGHT**.

You must adjust the Barrel. (Go to STEP 9)

If GO end DOES insert all the way to Ring, go to STEP 8.

8 Check No-Go Gauge

Insert NO-GO end of Headspace Gauge into T-Slot.



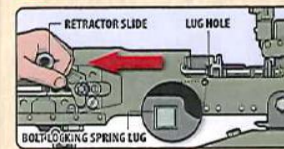
If NO-GO end of the Gauge DOES insert, Barrel is **TOO LOOSE**.

You must adjust the Barrel. (Go to STEP 9)

If you CANNOT insert NO-GO end: HEADSPACE IS SET.

Go to TIMING

9 Adjusting Headspace



Pull Retracting Slide back until Bolt Locking Spring Lug is aligned in Lug Hole. Hold Retracting Slide in this position while adjusting the Barrel.

Choose an adjustment based on gauge check.

Too Tight

Turn Barrel COUNTER-CLOCKWISE 1 CLICK.

Too Loose

Turn Barrel CLOCKWISE 1 CLICK.



1 CLICK



1 CLICK

DO NOT turn Barrel more than 1 CLICK.

10 Recheck Gauges

After each CLICK in STEP 9, REPEAT STEPS 7 & 8.



11 Repeat Until...

...GO end of Gauge fully inserts and NO-GO end does not. HEADSPACE IS SET.



Go to TIMING



REMEMBER

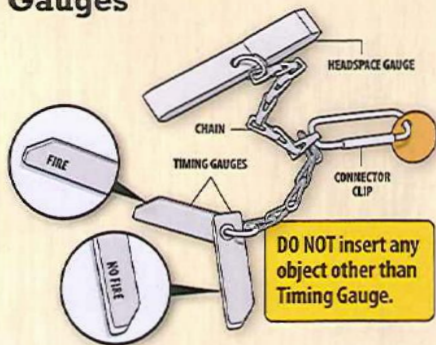
DO NOT USE Barrel that has been turned COUNTER-CLOCKWISE more than a total of 7 times, including the initial 2 CLICKS in STEP 4.

SET TIMING

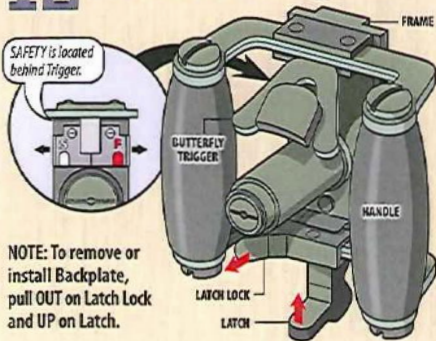
WARNINGS

- Clear weapon each time you check weapon.
- Always set Headspace first and Timing second.
- Set Safety to "F" position before you begin.

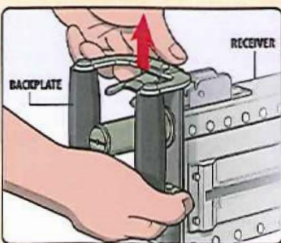
Gauges



12 Remove Backplate

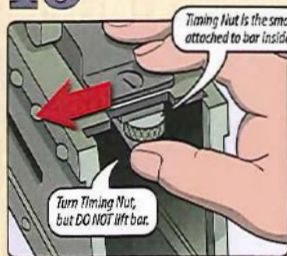


NOTE: To remove or install Backplate, pull OUT on Latch Lock and UP on Latch.



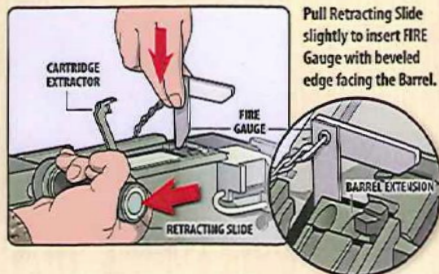
Stand to one side of gun, NOT behind it.
Remove Backplate by pulling OUT on Latch Lock and UP on Latch.
Slide Backplate straight up to remove.

13 Turn Timing Nut



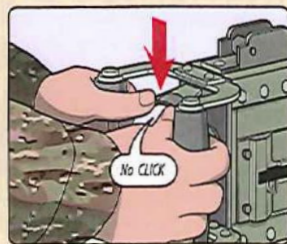
Turn Timing Nut all the way to the LEFT, but DO NOT loosen completely.
Reinstall Backplate.

14 Insert Fire Gauge



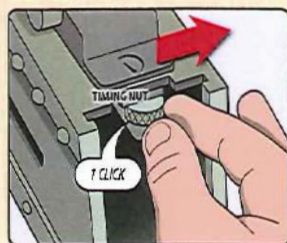
Pull Retracting Slide slightly to insert FIRE Gauge with beveled edge facing the Barrel.

15 Attempt to Fire



Ensure SAFETY is in "F" position. (See STEP 12)
Attempt to fire by depressing Butterfly Trigger. Gun should not fire because firing pin has not released.

16 Turn Timing Nut



Remove FIRE Gauge. Standing to one side, remove Backplate again and turn Timing Nut 1 CLICK to the RIGHT.

17 Repeat Sequence



Repeat steps 16 & 17 until gun fires.

18 Add Two Clicks

Once gun fires, remove FIRE Gauge and Backplate, then turn Timing Nut 2 MORE CLICKS to the RIGHT.



19 Charge Weapon

Reinstall Backplate and lower Extractor to prevent damaging weapon. Charge Weapon and allow Retracting Slide to go forward—DO NOT SLAM.

20 Attempt to Fire



Pull Retracting Slide slightly to insert NO FIRE Gauge with beveled edge against Barrel.
Attempt to fire by depressing Butterfly Trigger. (See STEP 15)
Gun should not fire.

21 Fire Weapon



Remove NO FIRE Gauge and reinsert FIRE Gauge.
Attempt to fire by depressing Butterfly Trigger.
Gun should fire.

Repeat steps 19–21 to ensure TIMING IS SET correctly.

Headspace and Timing should be checked and adjusted before firing weapon, after assembling weapon and after replacing barrel.

M2 .50 CAL HEADSPACE & TIMING Visual User Guide



All instructions, graphics and text in this guide were approved by PEO Soldier, U.S. Army. <http://peosoldier.army.mil>

WARNINGS

- Clear weapon each time you check weapon.
- Always set Headspace first and Timing second.
- DO NOT use coins, dog tags or links in place of Gauges issued with weapon.



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Cease Use of Ammunition LOT

<u>Type of ammunition</u>	<u>Rate in %</u>
High-explosive, target-practice, and chemical ammunition with all types of fuzes:	
Duds	5
Misfires	1
HEAT and HEP ammunition:	
Duds and failure to penetrate	5
Misfires	1
AP type:	
Failure to penetrate or poor performance	5
Misfires	1
Anti-personnel rounds:	
Failure to function	5
Misfires	1
Rockets:	
Duds and poor performance	5
Misfires	1
Guided Missiles:	
Duds	1*
Misfires	1*
Mines, grenades:	
Duds	5
Pyrotechnics (flares, signals, and so forth):	
Duds or poor performance	10
Illuminating shells:	
Failure to illuminate	15
Misfires	1
Bombs:	
Duds	5
Small arms (through .50 caliber):	
Misfires	0.1
Exception to the above:	
Artillery with fuzes set DELAY-duds	15
Burning-type grenades-duds	20
Failure to trace (20-mm and above)	20
Failure to self-destroy (if applicable)	10
Flare, surface, trip M49 series-duds	10
Projectile, 155-mm; illuminating, M118 series-duds	20
Simulator, booby trap, illuminating, M188-duds	10
Ammunition, 20-mm duds, 150 rounds	3

Notes:

- 1) Cease use of LOT of Ammunition if Malfunction Rate Meets Percentage listed above.
- 2) Guided Missiles Rate is Number of missiles, NOT Percentage.

Scheduling and Safety Requirements for a Successful Training Event

Scheduling of Ranges/Training Facilities and Site Surveys

1. Review Special Instructions in either ROD SharePoint or RMFSS Libraries to select appropriate Range/Training Facility for training requirements.
2. Conduct site survey of Range/Training Facility.
3. For site survey:
 - a. Positive radio communication with LONGRIFLE.
 - i. 40.35 FM Primary Ground Safety Net.
 - ii. 30.35 FM Alternate Ground Safety Net.
 - b. Appropriate Vehicle.
 - c. Camp Pendleton Military Information Map.
 - d. Environmental Operations Map (EOM).
 - e. TAAHR.
 - f. Road and River Report.
 - g. FDR Sheet.
4. Submit Request for Range/Training Facility with unit S-3/G-3 through RFMSS.
5. Verify with unit S-3/G-3 that request was approved by Range Scheduling prior to occupying Range/Training Facility.

Conducting Non-Live Fire Training

1. Positive radio communication with LONGRIFLE:
 - a. 40.35 FM Primary Ground Safety Net.
 - b. 30.35 FM Alternate Ground Safety Net.
2. Appropriate Vehicle.
3. Range Safety Officer (RSO).
 - a. Unit S-3/G-3 Verified current CPEND and Marine Net Range Safety.
4. Combat Life Saver (CLS).
5. ORM.
6. Camp Pendleton Military Information Map.
7. Environmental Operations Map (EOM).
8. TAAHR.
9. Road and River Report.
10. FDR Sheet.
11. Government Safety Vehicle.

Conducting Live Fire Training

1. Positive radio communication with LONGRIFLE:
 - a. 40.35 FM Primary Ground Safety Net.
 - b. 30.35 FM Alternate Ground Safety Net.
2. Appropriate Vehicle.
3. Officer In Charge (OIC).
 - a. Unit S-3/G-3 verified current CPEND and Marine Net Range Safety.
4. Range Safety Officer (RSO).
 - a. Unit S-3/G-3 verified current CPEND and Marine Net Range Safety.
5. Corpsman.
6. ORM.
7. NAVMC 11381.
8. Camp Pendleton Military Information Map.
9. Environmental Operations Map (EOM).
10. TAAHR
11. Road and River Report.
12. FDR Sheet.
13. Government Safety Vehicle.