

**BY ORDER OF THE COMMANDER  
341 MISSILE WING**

**341 MISSILE WING INSTRUCTION  
36-2601**



**30 JANUARY 2025**

**Personnel**

**TRAINING MARKER MANAGEMENT**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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**RELEASABILITY:** There are no releasability restrictions on this publication

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OPR: 341MSOS/S3T

Certified by: 341SFG/CC  
(Colonel James K, Meier)

Supersedes: 341WI36-2601, 20 November 2020

Pages: 45

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This instruction complements AFPD 36-26, Total Force Development and Management, 18 March 2019. This instruction provides an overview/guidance on the use of Training Markers (TM). This instruction follows AFI 36-2654, Chapter 7, AFMAN 36-2655, Chapter 16, AFMAN 31-129, Chapter 5, TO 11W2-9-4-11, DESR 6055.09\_AFMAN 91-201 V1.E6.27 and establishes policies, procedures, and requirements for the use of Training Markers (TM) during practical application exercises. This instruction applies to 341 MW and all associate units. Air National Guard and Air Force Reserve personnel are exempt from the provisions of this publication. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using AF Form 847, Recommendation for Change of Publication; route the AF Form 847 through the wing publishing office. Waivers to this instruction are not authorized. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with AFI 33-332, Records Management and Information Governance Program, and disposed of in accordance with the Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). This publication may not be supplemented or further implemented/extended. The use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force.

**SUMMARY OF CHANGES**

This document has been revised and needs to be completely reviewed. Changes include weapon safety procedures and briefings.

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**1. Roles and Responsibilities.** It is the responsibility of all personnel who train with TM or supervise TM training to comply with this instruction.

## **2. System Overview.**

2.1. Training Markers (TM) and weapon conversion kits enhance learning throughout the full spectrum of training. Incorporation of TM enhances mission readiness for AF personnel by expanding training capabilities and eliminating most limiting factors (LIMFACs) associated with blank ammunition and laser technology. Elimination of these LIMFACs include reducing the minimum safe firing distance from 20 feet down to 1.52 meters or 5 feet, encouraging the use of realistic cover and concealment practices by applying a pain-penalty associated with TM. Employing the marking cartridges enables more realistic training in areas which were previously limited or nonexistent. The following conversion kits are authorized for use on Malmstrom Air Force Base ([Attachment 2](#)):

2.1.1. The M16 series weapon (M16A2 and M4) CCMCK replaces the bolt carrier group to allow firing 5.56mm dye-marking cartridges without additional modifications. This kit utilizes normal M16/M4 magazines.

2.1.2. The M9/M18 and M11 Pistol CCMCKs are a replacement barrel assembly that will not chamber a conventional 9mm cartridge.

2.1.3. The FX® brand marking cartridge consists of a modified 9mm cartridge case, a plastic sabot and a thin-walled plastic projectile containing a detergent-based marking compound.

2.1.4. Units/personnel may only use the conversion kits/munitions listed in the CONOPS and operators manual (TO 11W2-9-4-11). Use of any other conversion kits or munitions is not authorized.

## **3. Safety.**

3.1. Only approved marking ammunition and properly modified weapons are authorized for use in the training area. The Chief Range Officer (CRO) will secure all operational weapons and ammunition prior to entering the training area until all training is complete. If members must respond to a real-world situation or exercise, the CRO and Range Safety Officers (RSO) will immediately sequester training weapons and marking rounds, then re-issue assigned weapons and ammunition.

3.2. Magazines used in training with TM will be marked with blue tape or blue paint. The tape must be placed on the magazine in such a manner so it is easily observed and does not interfere with the operation of the weapon.

3.3. All weapons, equipment, conversions kits and TM ammunition will be maintained in strict accordance with the manufacturers' operation and maintenance manuals.

3.4. The following safety equipment is MANDATORY for wear when using TMs in force-on-force type scenario training with hostile and friendly forces engaging each other. Additionally, all personnel in the training area must wear all mandatory safety equipment ([Attachment 3](#)).

3.4.1. Single hearing protection (earplugs).

3.4.2. Close Combat Mission Capability Kit (CCMCK) face mask NSN 8415-99-359-9160 with standard issue combat helmet and Sun, Wind and Dust Goggles NSN 8464-01-328-8268 or suitable substitute meeting American National Safety Institute (ANSI) Z87.1 standards. A suitable substitute for head, face and eye protection is the Simunitions FX®9003 full face protection mask NSN 8415-20-005-2260.

3.4.3. Throat protection if using Simunitions FX9003® face protection. The CCMCK face mask has an integral throat protector.

3.4.4. Standard gloves (nomex, leather, or winter issue).

3.4.5. Groin protection.

3.4.6. Long pants and long sleeved shirts.

3.4.7. Other optional safety equipment such as soft body armor should be considered, but is not mandatory.

3.5. The following safety equipment is MANDATORY for wear when using TMs fired at paper or other non-human targets for marksmanship or shoot, move and communicate training. Range Safety Officials must wear eye protection, hearing protection and an authorized uniform, but other CCMCK safety items are optional.

3.5.1. Single hearing protection (earplugs).

3.5.2. Sun, Wind, and Dust Goggles NSN 8464-01-328-8268 or suitable substitute eye protection meeting ANSI Z87.1 standards.

3.5.3. Individual issued helmet.

3.5.4. Standard gloves (nomex, leather, or winter issue).

3.5.5. Long pants and long sleeved shirts.

3.5.6. Other optional safety equipment such as soft body armor should be considered, but is not mandatory.

3.6. If any mandatory safety equipment becomes dislodged during training immediately cover the newly exposed body area with your hands, take a knee and call “cease fire”. DO NOT remove any equipment until instructed to do so.

3.7. Each training session will have a CRO assigned. RSOs will also be assigned to meet instructor to student ratios identified in the AFSFC SMC Course of Fire for shoot, move and communicate training or as necessary for effective control of the training scenario for force-on-force training. CROs and RSOs for using dye-marking cartridges must be certified by attending a manufacturer’s course, MAJCOM approved dye-marking cartridge course, unit developed train-the-trainer course or comparable course. This training must be documented in the individual’s training record on an AF Form 797, Job Qualification Standard Continuation/Command JQS and AF Form 1098, Special Task Certification and Recurring Training.

3.7.1. CROs are responsible for ensuring all training is conducted safely, wear of all safety equipment, and in accordance with established guidelines (**Attachment 7**). The CRO will conduct a safety briefing (**Attachment 4**) with all trainers and support personnel on:

3.7.1.1. Assembly and disassembly of the CCMCK conversion kits.

3.7.1.2. Trainer and support personnel duties and responsibilities.

3.7.1.3. Safe and unsafe areas during training (use map).

3.7.1.4. Local operational risk assessment approved by the 341 MW/SEW.

3.7.2. The CRO must be an E-6 or above unless waved by the 341 SFG/CC. Certified CROs will be listed on a commander signed CRO/RSO appointment memorandum and will:

3.7.2.1. Inspect the training area for any objects, obstacles or lethal munitions that could pose a threat or hazard.

3.7.2.2. Conduct the safety brief (**Attachment 4**).

3.7.2.3. Account for the safe storage, verification and issuance of training ammunition.

3.7.2.4. Designate the training area as either “HOT” or “COLD” verbally and cordon the training area with orange cones.

3.7.2.5. Monitor all training to ensure a safe environment is maintained.

3.7.2.6. Assign range guards, if needed, to control entry/access to the training area.

3.7.3. RSOs are responsible for executing the scenarios and verifying all training objectives are met. The CRO must work hand-in-hand with the RSOs to ensure training remains realistic without sacrificing safety. The RSO will:

3.7.3.1. Receive qualification training and certification prior to assuming RSO duties. Control the flow of the scenario to ensure all training objectives are met (**Attachment 5**).

3.7.3.2. Assign weapon types and ammunition colors to participants. Coordinate with the CRO for required equipment.

3.7.3.3. Ensure all course requirements and safety measures are adhered to.

3.7.3.4. Conduct de-brief with all participants.

3.7.3.5. The RSO must be an E-5 or above. Certified RSOs will be listed on a commander signed CRO/RSO appointment memorandum.

3.7.3.6. Request additional RSOs as necessary for the training scenario.

3.8. Emergency action procedures should an accident, incident or injury take place.

3.8.1. All dye marking cartridge training events will have a serviceable vehicle dedicated to transporting injured personnel to medical care present. A first aid kit will be available to the CRO and RSOs during training.

3.8.2. Immediately call a cease fire, clear all weapons and make the range cold. RSOs will remove non-essential personnel from the vicinity of the accident, incident or injury then secure and account for all weapons, munitions and personnel.

3.8.3. Perform first-aid as necessary for any injuries. If injured member is ambulatory, move from the incident or accident site to the safe zone for continued treatment. If the member requires medical treatment beyond first aid, the CRO will determine whether to transport the member to medical care or call for emergency assistance response. All injuries will be reported to 341 MW/SEG.

3.8.4. Notifications for accidents, incidents or injuries will include the Base Defense Operations Center (BDOC), Command Post, Wing Safety, Medical if services are required, Fire Department if services are required, Explosive Ordinance Disposal if services are required, and local civilian authorities if training area is located off the installation. All contact numbers can be found in the Shoot, Move, Communicate (SMC) and Force-on-Force (FoF) continuity binders.

#### 4. Training Areas.

4.1. Training areas for CCMCK training, or courses without pre-identified and controlled vectors of fire, will contain three zones: Training Area, Surface Danger Zone, and Safe Zone ([Attachment 6](#)).

4.1.1. Training Area: Area where dye-marking cartridges may be fired during training.

4.1.2. Surface Danger Zone: Establish a 75 meter radius "Safety Area" around the entire CCMCK Training Area. If space is available, increase this radius up to 300 meters. No weapons will be fired outside the Training Area. Marking rounds are less than lethal but the Safety Area is intended to prevent non-players, without protective equipment, from being hit with CCMCK rounds. If the Training Area is completely surrounded by a wall or other barriers impenetrable by dye-marking cartridges with closed access and egress points, the Surface Danger Zone will consist of the wall or barrier.

4.1.3. Safe Zone: Area outside of the Surface Danger Zone identified for personnel briefings, parking, equipment storage, etc.

4.2. Entrance to the Surface Danger Zone and the Training Area will be controlled (doors, range guards, signs etc.).

4.3. For the purposes of shoot, move and communicate courses with controlled vectors of fire (fire always directed from designated locations toward emplaced targets), training areas will adhere to standard Air Force firing range design criteria for Surface Danger Zones per current Engineering Technical Letter governing Air Force firing ranges and applicable maximum range of ammunition.

4.4. Once training areas have been identified and approved by 341 MW/SE, a list of approved training sites will be maintained along with this Missile Wing Operating Instruction.

4.5. If real-world security requirements exist in or around an exercise area, the commander must have an armed individual present for security purposes. This individual must be easily identifiable to all training/exercise participants (i.e., reflective vest, brassard or other means). The individual selected for this purpose must be thoroughly briefed on their responsibilities and must not be part of the training or exercise.

## 5. Requirements.

5.1. Approved training marker cartridges will be procured through the 341st Munitions Squadron via munitions requirements forecasting and out-of-cycle requests. These cartridges are propelled by a standard small pistol primer in combination with a small quantity of propellant. As such, the training marking cartridges are considered an explosive item which has been approved by the Non-Nuclear Munitions Safety Board.

5.2. Other training markers may only be used once approved by the Air Force Security Forces Center (AFSFC).

5.3. Commercial Off-The-Shelf (COTS) purchases for dye marking cartridges are not authorized.

5.4. Individual units requesting dye marking munitions must coordinate through installation munitions manager for authorization.

5.4.1. Storage, inspection and handling. Items must be stored in an approved explosive storage location and handled IAW AFMAN 91-201, Explosive Safety Standards and as supplemented or AFMAN 91-201\_AFGSCSUP. Individual units are responsible for coordinating storage of authorized TM munitions in approved explosive storage facilities.

5.4.2. Residue. Residue (expended TM cartridges) will be the responsibility of the CRO/RSO personnel. They will, upon completion of firing iterations involving TM cartridges, collect and separate all expended and non-expended rounds for disposition. Coordinate with 341 MSOS/S3T for storage and sorting until cartridges can be turned into DRMO for appropriate disposal.

5.4.3. Excess and final disposition/demilitarization. Rounds will not be utilized after the shelf life has expired. Once rounds have exceeded their shelf life, they will be disposed of along with any dud rounds through standard munitions channels.

5.4.4. Accountability. Training markers will be accounted for by owning units through standard munitions channels. Weapons conversion kits and safety equipment will be accounted for and maintained by owning units.

## 6. Training Considerations.

6.1. Scenarios should be as realistic as possible. Don't waste time on "what if" situations.

6.2. Don't abuse the pain penalty. If you do this it will de-motivate students and learning stops. You can get the same training value with five rounds per student per scenario as you can with 15 rounds per student per scenario, and you aren't abusing your students.

6.3. Don't stop scenarios until complete. Allow students to execute post attack/shooting follow-up actions. Get them back in the fight.

6.4. Clearly define objectives. Give students a standard to meet.

6.5. Rehearse scenarios prior to using them on students.

6.6. Use the perfect practice approach. Practice does not make perfect. Perfect practice makes perfect!

6.7. Accurate debriefs are critical and should be approached in such a manner they don't demotivate students. Video feedback is an effective tool.

6.8. Keep students and role-players focused on the training objective, reinforce sound practices and keep them motivated.

6.9. Some students will progress faster than others. Afford students enough time and repetitions to grasp the technique.

DANIEL J. VOORHIES, Colonel, USAF  
Commander

**Attachment 1**

**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION**

***References***

**AFI33-332**, *Air Force Privacy and Civil Liberties Program*, 10 March 2020

***Prescribed Forms***

None

***Adopted Forms***

AF Form 847, *Recommendation for Change of Publication*

AF Form 797, *Job Qualification Standard Continuation/Command JQS*

AF Form 1098, *Special Task Certification and Recurring Training*

***Abbreviations and Acronyms***

**AFRIMS**—Air Force Records Information Management System

**AFSFC**—Air Force Security Forces Center

**ANSI**—American National Safety Institute

**BDOC**—Base Defense Operations Center

**CCMCK**—Close Combat Mission Capability kit

**COTS**—Commercial Off-the-Shelf

**CRO**—Chief Range Officer

**FoF**—Force on Force

**HQ**—Headquarters

**LIMFAC**—Limiting Factors

**MASO**—Munitions Accountability System Officer

**MSA**—Munitions Storage Area

**OPR**—Office of Primary Responsibility

**RDS**—Records Disposition Schedule

**RSO**—Range Safety Officer

**SMC**—Shoot, Move and Communicate

**TC**—Training Cadre

**TM**—Training Markers

Attachment 2

CONVERSION KITS AND MARKING CARTRIDGES

Figure A2.1. Replacement barrel assembly and extra spring.



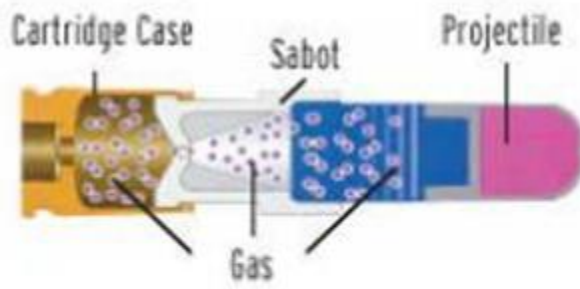
Figure A2.2. Replacement barrel assembly and extra spring.



Figure A2.3. M4/M16/M249 Marking Cartridge.



Figure A2.4. Marking Cartridges, M9/M18/M11 Marking Cartridge.



**Attachment 3****SAFETY EQUIPMENT****A3.1. CCMCK Exercises/Training shooting at personnel.****Figure A3.1. Full Face Protection CCMCK Protective Mask NSN 8415-99-359-9160.****Goggles, Sun, Wind and Dust NSN 8464-01-328-8268****Simunitions|FX® 9003 Head Protector NSN 8415-20-005-2260**

**Figure A3.2. Throat Protection.**



**Figure A3.3. Groin Protection.**



**Figure A3.4. Gloves, e.g. nomex, leather, or issued winter gloves must be worn.**



**Figure A3.5. Additional Required Gear.**



## Attachment 4

### SAFETY BRIEFING

**A4.1. CRO.** All weapons to be used in this training will be inspected by me (CRO) to ensure that they have the proper weapons conversion kits installed. All weapons bores WILL be checked before and after training is completed for obstructions by running a cleaning rod the entire length of the bore and chamber (if weapon design permits) and will not allow live-fire with any SA/LW that have not been cleared using this method. **NOTE:** Brief all personnel on the boundaries of the exercise area.

**A4.2. All magazines to be utilized in this evolution will be inspected by myself or designated NCO and marked with brightly colored blue tape or blue paint where it is easily visible and doesn't interfere with the functioning of the weapon.** All magazines not inspected and marked will be removed from the immediate training area. Ammunition will not be loaded into magazines until training is ready to commence. I will observe the loading of all magazines with the training marker. No marker of any kind will be carried in pockets at any time. I will inspect all weapons and magazines after this brief. **NOTE:** Brief all exercise participants the physical differences between live, dye-marking, less than lethal and blank/dye-marking ammunition and ensure they can readily identify each. If blanks are being utilized ensure a designated disinterested official certifies that only blanks are loaded. Also, ensure there are two readily available fire extinguishers (2A-10BC) and all personnel know the location of the fire extinguishers.

**A4.3. All personnel will wear appropriate MANDATORY protective gear.** This includes all participants and observers. Non-duty clothing must cover the arms, legs and hands. Does everyone have the required safety equipment? All personnel and gear will be sanitized (hands-on) for live ammunition and other non-approved devices prior to exercises and other training events.

**A4.4. I (CRO) am the only person who can grant permission for the training cycle to begin.** When I am satisfied with the training area, proper clothing, protective equipment, safety of the intended training/exercise, and make proper notifications I will start the training cycle by announcing the training area is "HOT". When the training cadre tells you to load, point your weapons in a safe direction, charge it, re- holster/sling the weapon and prepare for the scenario. At no time will a loaded weapon leave the training area. All standard weapon safety rules apply while on the range and involved in training.

**A4.5. All exercise participants with weapons loaded with dye-marking rounds are not to be pointed or fired at any individual within 1. 52 meters or 5 feet.** Intentional shots above the neck during force-on-force training/exercises are NOT authorized. Students will NOT intentionally fire at the head or face of other personnel. Do NOT point your weapon at yourself or others, unless engaging a threat, place the selector on SAFE prior to moving, weapons remain on SAFE at all times until your sights are on target and the student is ready to engage the threat. Do NOT place your finger inside the trigger guard unless you are engaging a threat. The 5.56mm CCMCK marking ammunition may drop up to 12-inches from line-of-sight at 22 meters (approx. 72ft). If your weapon misfires/malfunctions conduct your immediate/remedial actions and make contact

with an RSO or CRO if you are unable to correct the problem. You will NOT take off your safety equipment at any time during the exercise in order to conduct immediate/remedial actions. **NOTE:** When utilizing BLANK ammunition brief all exercise participants that weapons loaded with blanks and equipped with blank firing attachments or adapters, are not to be pointed and fired at any individual within 20 feet of the muzzle.

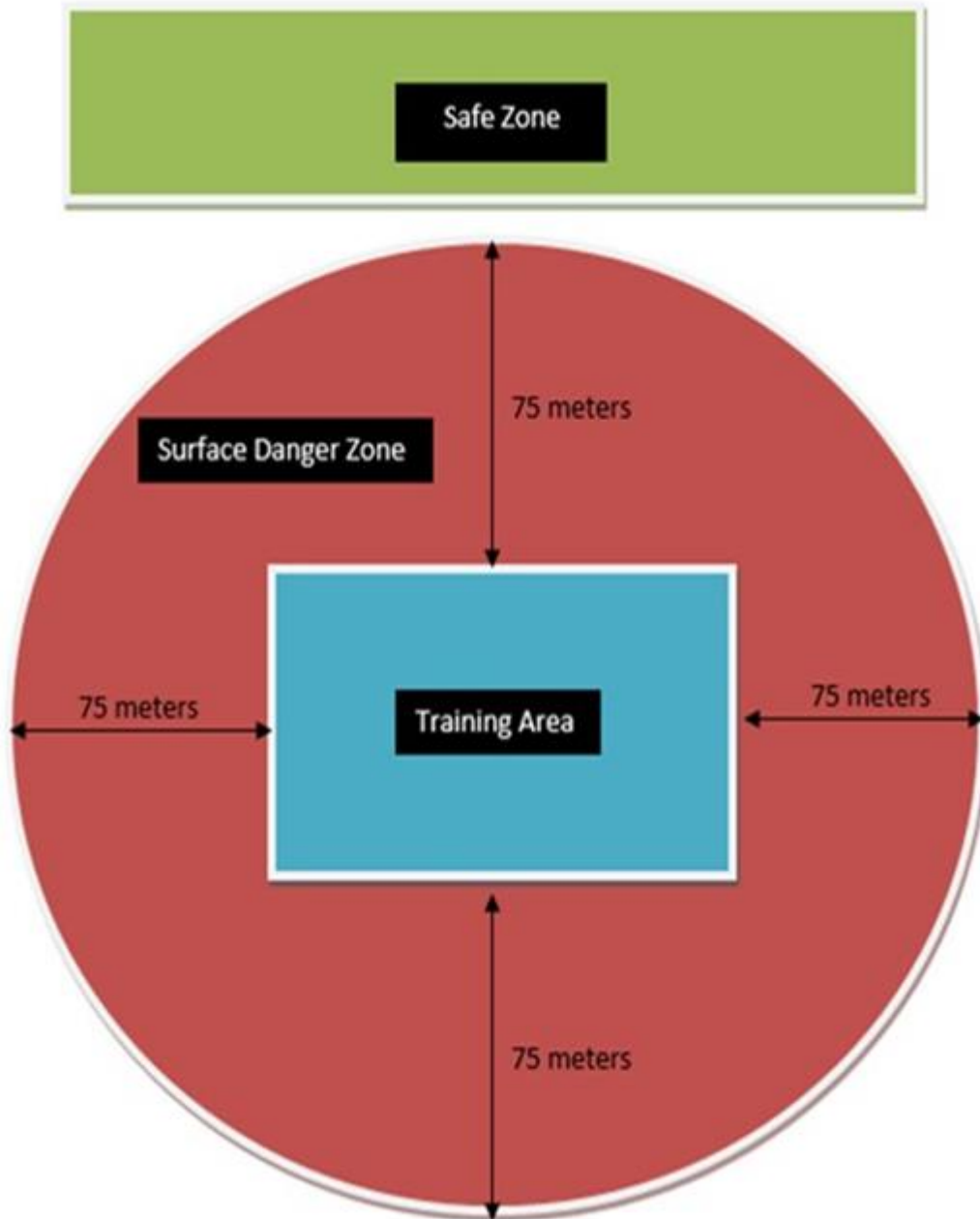
**A4.6. At no time shall any attending personnel remove any safety equipment until I have called the training area “COLD”.** When complete with all training scenarios, I will account for all personnel and weapons will be cleared and a “buddy-check” will be accomplished before I call the training area “COLD”.

**A4.7. If you hear “CEASE FIRE” you will immediately stop training, point your weapon in a safe direction, and wait for further instructions.** If anyone becomes injured, sick or incapacitated for any reason, the RSO or I will assess the situation and collect the individual's weapon(s) and ammunition for proper disposition. Emergency action procedures will be conducted by the RSO or me in accordance with [Attachment 8](#) of this instruction. In the case of inclement weather I will call a “CEASE FIRE” based on the situation at that time and all personnel will clear out their weapon system and go to the safe area. If anyone witnesses anything they think is unsafe, shout “CEASE FIRE”. All training will stop until the condition is made safe. If you hear “CEASE FIRE” you must echo the command. Do you have any question?

**Attachment 5**  
**TRAINING AREAS**

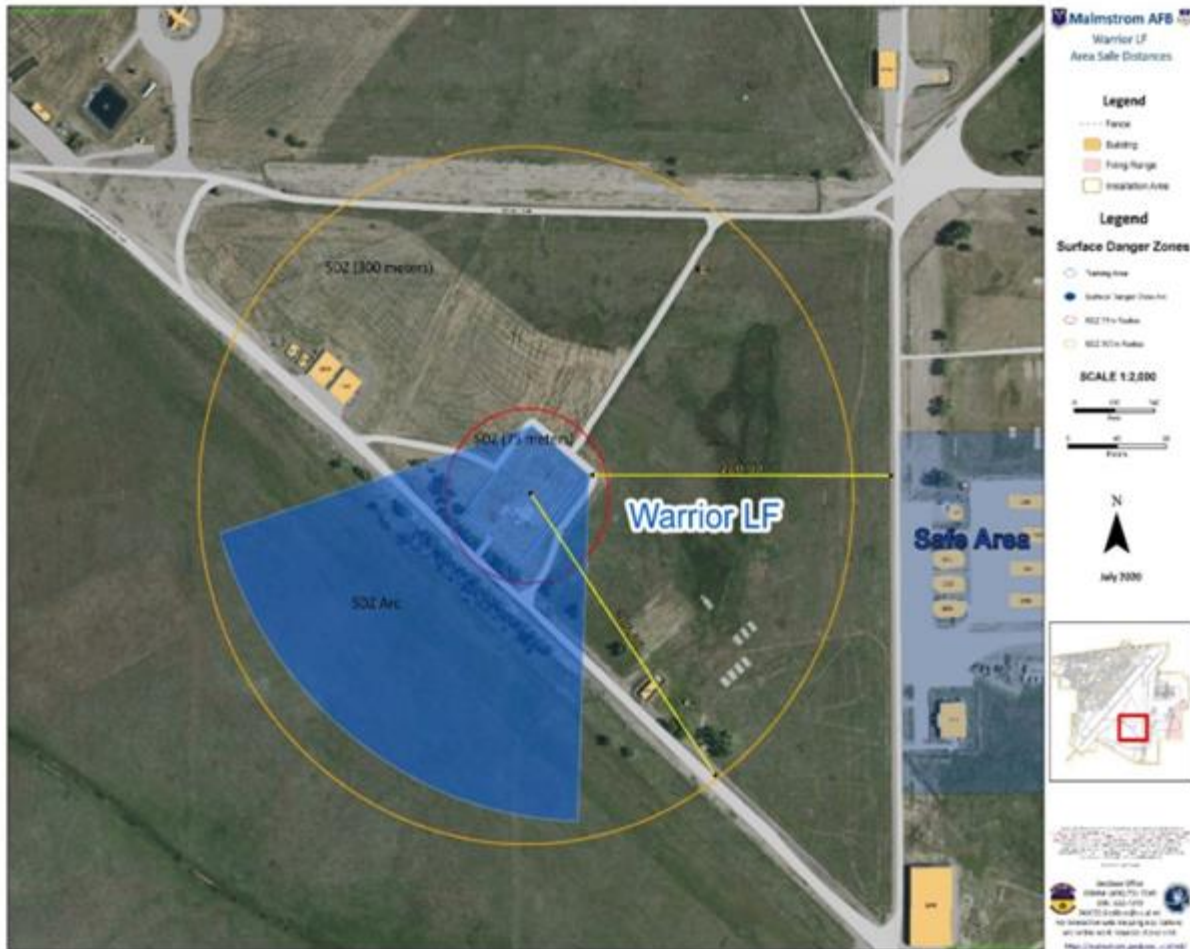
**A5.1. Sample Training Area.**

**Figure A5.1. Sample Training Area.**



**A5.2. Warrior LF:** All training will take place inside the designated space identified on the map immediately north of the Warrior LF. The perimeters shown represent the defined areas that constitute the Surface Danger Zone (SDZ), SDZ Arc, and the Safe Area. All PPE will be worn while training with dye marking cartridges inside the Surface Danger Zone Area.

**Figure A5.2. Warrior LF.**



**A5.3. SMC Training Area:** All training will take place inside the designated space identified on the map north of CATM. The perimeters shown represent the defined areas that constitute the Surface Danger Zone (SDZ), SDZ Arc, and the Safe Area. All PPE will be worn while training with dye marking cartridges inside the Surface Danger Zone Area.

**Figure A5.3. SMC Training Area.**

**A5.4. Hangar 219 Bays 1 and 3:** All training will take place inside the hangar bay walls (see shaded areas). The shaded areas contain the Surface Danger Zone (SDZ) and training areas. The Safe Areas are located anywhere outside of the shaded areas. All PPE will be worn while inside the shaded areas.



## Attachment 6

## SMC/FORCE ON FORCE CRO/RSO EXECUTION CHECKLIST

Table A6.1. SMC/Force on Force Training CRO/RSO Execution Checklist.

	COMPLETED
1. Secure operational weapons and ammo. Make notifications to all required agencies utilizing Attachment 9 prior to the training/exercise area going "HOT". Ensure the Base Defense Operations Center knows the exercise location. If training/exercise is conducted off the installation make contact with local authorities. <b>(CRO/RSO)</b>	
2. Give safety brief. Ensure radio/telephone contact is maintained between the training/exercise area and the BDOC during all training/exercises. Ensure all exercise participants are aware of the physical differences between live, dye-marking, less than lethal and blank/dye-marking ammunition and can readily identify each. Observe the loading of all magazines with the training marker and use a designated disinterested official to certify only blanks are loaded. <b>(CRO)</b>	
3. Safety inspection of training area. Ensure there are two readily available fire extinguishers (2A-10BC) and all personnel know the location of the fire extinguishers. <b>(CRO)</b>	
4. Conduct safety inspection of RSOs, role-players, Support personnel and vehicles (if applicable). <b>(CRO/RSO)</b>	
5. When conducting the SMC course ensure the instructor-to-student ratio is maintained throughout the course and follow the course of fire in accordance with Attachment 10 of this instruction. <b>(CRO/RSO)</b>	
6. Brief role-players and support personnel on positions for scenario. <b>(RSO)</b>	
7. Prepare all weapons and issue un-loaded weapons to role-players if needed. <b>(RSO)</b> Ensure each weapons barrel is free of obstructions by running a cleaning rod the entire length of the bore and chamber.	
8. Bring students to surface danger zone entrance for inspection. <b>(RSO)</b>	
9. Conduct safety inspection of students and vehicles. <b>(RSO)</b>	
10. Conduct scenario brief. <b>(CRO/RSO)</b>	
10. Role-players and support personnel put masks on until range is called cold. Role-players weapons are not loaded yet. When satisfied that everyone is briefed and wearing all necessary protective equipment and the training area is secure, <b>CRO</b> will call the range " <b>HOT</b> ".	
11. Answer any final questions students may have. <b>(RSO)</b>	
12. Have students face in a safe direction and load weapons. Begin scenario. <b>(RSO)</b>	
13. <b>RSO</b> positions himself to monitor the scenario for safety violations. You are not an active participant in the scenario. If you see a safety violation, shout "CEASE FIRE". <b>(RSO)</b>	

14. <b>RSO</b> monitors the scenario for safety issues and ensures training objectives are met. End the scenario by shouting “CEASE FIRE, CEASE FIRE, and EVERYONE COME TO THE SOUND OF MY VOICE.” All masks stay on. Check for injuries. <b>(RSO)</b>	
15. Instruct all personnel with weapons to face in a safe direction and clear their weapons. Account for all personnel, weapons and equipment. All items must be accounted for and checked by the <b>RSO</b> . The <b>CRO</b> will call the range “ <b>COLD</b> ”. All personnel may then remove masks. Ensure each weapons barrel is free of obstructions by running a cleaning rod the entire length of the bore and chamber.	
16. Conduct debrief/ after action review. <b>(RSO)</b>	
17. Once all training is complete account for all weapons, magazines, equipment, and conduct a sweep of the training area for brass, trash and any other foreign objects before personnel leave the Safe Zone. Make notifications to all required agencies utilizing Attachment 9 to notify them that the training/exercise has been terminated and the area is “COLD”. Turn in all equipment, ammo cans/crates and expended ammunition to 341 MSOS/S3T for proper disposition. <b>(CRO/RSO)</b>	

Attachment 7

EMERGENCY ACTION CHECKLIST

Table A7.1. Emergency Action Checklist.

***COMPLETE CHECKLIST SHOULD AN ACCIDENT, INCIDENT OR INJURY OCCUR***		
Item	Complete	Comments
Immediately call a cease fire.	<input type="checkbox"/>	
Clear all weapons, rod the barrel to ensure there are no obstructions and make the range cold.	<input type="checkbox"/>	
<b>RSOs</b> will remove non-essential personnel from the vicinity of the accident, incident or injury.	<input type="checkbox"/>	
Secure and account for all weapons, munitions and personnel. ( <b>RSOs</b> )	<input type="checkbox"/>	
Perform first-aid as necessary for any injuries. If injured member is ambulatory, move from the incident or accident site to the safe zone for continued treatment.	<input type="checkbox"/>	
If the member requires medical treatment beyond first aid, the <b>CRO</b> will determine whether to transport the member to medical care or call for emergency assistance response.	<input type="checkbox"/>	
<p><b><u>Make Notifications (Mandatory)</u></b></p> <ul style="list-style-type: none"> <li>• <b><u>BDOC(Medical/Fire/LE)</u></b> <ul style="list-style-type: none"> <li>○ x3895</li> </ul> </li> <li>• <b><u>Command Post</u></b> <ul style="list-style-type: none"> <li>○ x3801/3891</li> </ul> </li> <li>• <b><u>Wing Safety</u></b> <ul style="list-style-type: none"> <li>○ x7009</li> </ul> </li> <li>• <b><u>EOD (if needed)</u></b> <ul style="list-style-type: none"> <li>○ x7806/6894</li> </ul> </li> <li>• <b><u>Local Authorities (if needed)</u></b></li> </ul>	<input type="checkbox"/>	**ALL INJURIES WILL BE REPORTED TO 341 MW/SEG (WING SAFETY)

## Attachment 8

## RANGE "HOT/COLD" NOTIFICATION CHECKLIST

Table A8.1. Range "HOT/COLD" Notification Checklist.

<b>***Complete Checklist Prior to the Training/Exercise area going "HOT" and once again when the training/exercise has been completed/terminated and the area is "COLD"***</b>		
<b>Notify</b>	<b>Complete</b>	<b>Comments</b>
BDOC (LE, Fire, Medical): 731-3895	<input type="checkbox"/>	
341 SFS/WSA: 731-6414	<input type="checkbox"/>	
341 SFS/CSC: 731-6852	<input type="checkbox"/>	
Helo Operations: 731-3250	<input type="checkbox"/>	
Command Post: 731-3801/3891	<input type="checkbox"/>	
Explosive Ordinance Disposal (EOD): 731-6894	<input type="checkbox"/>	
Safety: 731-7009	<input type="checkbox"/>	

## Attachment 9

## SMC COURSE OF FIRE CHECKLIST

**Table A9.1. SMC Course of Fire Checklist.**

Instructor ratios. The following instructor-to-student ratios will be maintained during all orders requiring movement:

Non-standard response (Order 1) and transition to handgun (Order 2) – One instructor per 7 students.

Individual movement – One instructor per student.

Two-Member movement – One instructor per two-member team.

Fire team movement – One instructor per two-member team (two instructors per fire team) and one CRO to observe everyone.

**NOTE: Before and After** training is conducted ensure that an Instructor rods each weapons barrel to ensure the barrel is free from any obstructions.

<u>ORDER</u>	<u>POSITION</u>	<u>ROUNDS</u>	<u>TIME</u>	<u>(DISTANCE Meters)</u>	<u>TARGET(S)</u>
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**Table I: Day 1 – Individual Skills**

1.	Standard/Non-standard Response	15 (1, 15 rd mag)			
2.	(Chest)		2 sec	10	E
3.	(2 Chest, 1 Head)		3 sec	10	E
4.	(4 Chest)		5 sec	10	E
6.	(2 Chest, 2 Head, 2 Pelvis)		6 sec	10	E
2.	Transition to Handgun	1, 10 rd 9mm mag	N/A	30-10	E
3.	Reload on the Move	10 (5, 2 rd mag)	N/A	10-50	E
4.	Forward Movement	10 (1, 10 rd mag)	N/A	30-50	E
5.	Rearward Movement	10 (1, 10 rd mag)	N/A	30-50	E

**45 Total Round (5.56mm) for Table I 10 Total Round (9mm) for Table I**

**Table II: Day 2 - SMC Skills (Forward and Rearward Movement)**

1.	Two-Member Cover Drills	20 (2, 5 rd mag and 1, 10 rd mag)	N/A	10-25	4xE
2.	Two-Member Assault (with Cover)	30 (2, 15 rd mag)	N/A	50-10	2xE
3.	Two-Member Withdrawal (with Cover)	30 (2, 15 rd mag)	N/A	10-50	2xE
4.	Fire Team Assault (with	30 (2, 15 rd mag)	N/A	50-10	4xE

Cover)

5. Fire Team Withdrawal 30 (2, 15 rd mag) N/A 10-50 4xE  
(with Cover)

**140 Total Rounds (5.56mm) for Table II**

**Table III: Day 3 - SMC Team Skills (Lateral Movement)**

1. Two-Member Lateral 30 (2, 15 rd mag) N/A 30-50 2xE  
Movement  
2. Fire Team Lateral 30 (2, 15 rd mag) N/A 30-50 4xE  
Movement (with Cover)

**60 Total Rounds (5.56mm) for Table III**

**245 Total Rounds (5.56mm) for Course 10 Total Rounds (9mm) for Course**

<b>Table 1: Individuals Skill Practice</b>		
<b>Order 1--Standard/Non-Standard Response (Failure to Stop) (1, 15rd magazine)</b>		
<b>Instructor Command</b>	<b>Complete</b>	<b>Student Actions</b>
“Load”	<input type="checkbox"/>	Load 15 round magazine.
“Make Ready”	<input type="checkbox"/>	Students point the muzzle down range, charge the weapon and assume the low ready position.
<b>String 1</b>		
“Fire!”	<input type="checkbox"/>	Shooters will bring weapon up into the SRC firing position and engage the target’s 10” vital zone with a controlled pair within 2 seconds.
“Cease Fire!”	<input type="checkbox"/>	Student will place weapon on “Safe”, execute “Cover and Sweep” and return to the Low Ready position.

<b>String 2</b>		
“Fire!”	<input type="checkbox"/>	Students bring the weapon up into the SRC firing position and engage the target’s 10” vital zone with a controlled pair and one round to the 6” head zone within 3 seconds.
“Cease Fire!”	<input type="checkbox"/>	Student will place weapon on “Safe”, execute “Cover and Sweep” and return to the Low Ready position.
<b>String 3</b>		
“Fire!”	<input type="checkbox"/>	Students bring the weapon up into the SRC firing position and engage the target’s 10” vital zone (chest) with two controlled pairs (4 rounds) within 5 seconds.
“Cease Fire!”	<input type="checkbox"/>	- Students will place weapon on “Safe”, execute “Cover and Sweep” and return to the Low Ready position.
<b>String 4</b>		
“Fire!”	<input type="checkbox"/>	- Students bring the weapon up into the SRC firing position and engage the target’s 10” vital zone, the 6” head zone and the pelvic girdle with controlled pairs (6 rounds) within 6 seconds.
“Cease Fire!”	<input type="checkbox"/>	-Students will place weapon on “Safe”, execute “Cover and Sweep” and return to the Low Ready position.
<b>Order 2--Transition to Handgun (<i>Load M4 w/empty magazine and handgun with a 10 round magazine</i>)</b>		
<b>Strings 1-5</b>		
<b>Instructor Command</b>	<b>Complete</b>	<b>Student Actions</b>
“Move!”	<input type="checkbox"/>	- ( <i>From 30m away from target</i> ) Students begin moving forward with the M4 at low ready.

“Contact Front!”	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Students attempt to engage the target(s) with the M4 carbine. When the weapon fails to fire, students transition to the handgun and engage the target with two rounds.</li> <li>- Once two rounds have been fired, students stop moving, execute cover and sweep then holster the handgun to complete the string. After holstering the handgun, students then return to the starting point and repeat the drill.</li> </ul> <p><i>(5 repetitions)</i></p>
<b>Order 3--Reload on the Move (5, 2rd magazines)</b>		
<b>Instructor Command</b>	<b>Complete</b>	<b>Student Actions</b>
“Load!”	<input type="checkbox"/>	- Students will load.
“Make Ready!”	<input type="checkbox"/>	- Students point the muzzle down range, charge the weapon, ensure the selector is on Safe and assume the low ready position.
“Move!”	<input type="checkbox"/>	- Students will begin moving forward at “combat speed” (jog).
“Contact Front!”  <i>(Once reload is complete, repeat command)</i>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Students slow to a fast walk and engage the target with a controlled pair, return to combat speed and immediately execute a reload.</li> </ul> <p><i>(Student will repeat until all magazines are expended)</i></p>
<b>Order 4--Forward Movement (with cover) (2, 10rd magazine)</b>		
<b>Instructor Command</b>	<b>Complete</b>	<b>Student Actions</b>
“Load!”	<input type="checkbox"/>	- Student will load and assume the Depressed Ready position. <i>(Student will begin 7-10m from first barricade)</i>
“Contact Front!”	<input type="checkbox"/>	- Students move to the barricade, charge the weapon and engage the targets with controlled pairs.
“Move Up!”	<input type="checkbox"/>	- Students will request “Cover!”
“Ready!”	<input type="checkbox"/>	- Students will announce “Moving Up!” Student will move up to next barricade and engage target with controlled pair utilizing the KNEELING barricade position.
“Move Up!”	<input type="checkbox"/>	- Students will request “Cover!”

“Ready!”	<input type="checkbox"/>	- Students will announce “Moving Up!” Student will move up to next barricade and engage target with controlled pair utilizing the STANDING barricade position.
“Move Up!”	<input type="checkbox"/>	- Students will request “Cover!”
“Ready!”	<input type="checkbox"/>	- Students will announce “Moving Up!” Student will move up to next barricade and engage target with controlled pair utilizing the KNEELING barricade position.
“Move Up!”	<input type="checkbox"/>	- Students will request “Cover!”
“Ready!”	<input type="checkbox"/>	- Students will announce “Moving Up!” Student will move up to next barricade and engage target with controlled pair until the magazine is empty utilizing the STANDING barricade position.
Repeat “Move Up!” and “Ready!” commands until student reaches last barricade.	<input type="checkbox"/>	- Students will move up to all barricades until he/she reaches final barricade. Students will then fire remaining ammo in loaded magazine until expended. Clear weapon, <b>close-bolt load</b> with another 10rd magazine and stand-by for further commands from instructor.
<b>Order 5--Rearward Movement (with cover)</b>		
<b><i>Instructor Command</i></b>	<b><i>Complete</i></b>	<b><i>Student Actions</i></b>
Verify student has weapon <i>close-bolt loaded</i> .	<input type="checkbox"/>	- Students should already have next 10rd magazine <b>close-bolt loaded, chamber empty</b> , and weapon on “Safe”. - Students will assume the Depressed Ready position. ( <i>Student will begin 7-10m from last barricade</i> )
“Contact Front!”	<input type="checkbox"/>	- Students will move to the barricade, charge weapon and engage target with a controlled pair utilizing the STANDING barricade position.

“Move Back!”	<input type="checkbox"/>	- Students will request “Cover!”
“Ready!”	<input type="checkbox"/>	- Students will announce “Moving Back!” Student will move to the next barricade and engage target with controlled pair utilizing the KNEELING barricade position.
Repeat “Move Back!” and “Ready!” commands until student reaches last barricade.	<input type="checkbox"/>	- Students will move back to all barricades until he/she reaches final barricade. Students should alternate from STANDING to KNEELING barricade firing positions. Student will then fire remaining ammo in loaded magazine until expended. - Safe/Clear weapon.
<b>Table 2: SMC Team Skills (Forward and Rearward Movement)</b>		
<b>Order 1--Two-Man Cover Drills (2, 5rd magazines and 1, 10rd magazine)</b>		
<b>Instructor Command</b>	<b>Complete</b>	<b>Student Actions</b>
“Load!”	<input type="checkbox"/>	- Students will load a 10rd magazine and 2, 5rd magazine in their pouches. - <i>(Students will begin 7-10m from barricade)</i>
“Contact Front!”	<input type="checkbox"/>	- Students will move to the nearest barricade, charge their weapons and engage targets within their sectors. - While one member reloads the “covering” team member must engage all threats until reloading is complete. - <i>Ensure students are using the commands “Cover” and “Ready” to communicate their status.</i>
<b>Order 2--Two-Man Assault (with cover) (2, 15rd magazines) <b>REQUIRES ONE RSO PER STUDENT</b></b>		
<b>Instructor Command</b>	<b>Complete</b>	<b>Student Actions</b>
“Load!”	<input type="checkbox"/>	- Students load with a 15-round magazine, chamber empty, and place 1, 15-round magazine in their pouches.

“Contact Front!”	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Both students move to the nearest position of cover and charge their weapons.</li> <li>- Student Number 1 (team leader) provides cover fire by engaging each of two targets while Student Number 2 moves forward to another position of cover.</li> <li>- Once in the position of cover, Student Number 2 takes over firing on the targets while Student Number 1 moves forward to the next position of cover.</li> <li>- Students continue to engage targets until all ammunition has been expended.</li> </ul>
“Cease Fire!”	<input type="checkbox"/>	- Students clear weapons and await instructions.
<b>Order 3--Two-Man Withdrawal (with cover) (2, 15rd magazines) <span style="color: red;">REQUIRES ONE RSO PER STUDENT</span></b>		
<b>Instructor Command</b>	<b>Complete</b>	<b>Student Actions</b>
“Load!”	<input type="checkbox"/>	- Students load with a 15-round magazine and place 1, 15-round magazine in their pouches. Students begin 7-10 meters from the barricade.
“Contact Front!”	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Both students move to the first position of cover, charge their weapons and prepare to engage targets.</li> <li>- Student Number 1 announces “COVER,” to which Student Number 2 replies “READY” and engages all targets with suppressive covering fire.</li> <li>- Student Number 1 then removes their finger from the trigger, places the weapon on Safe, assumes the high port carry position as appropriate, faces the direction of movement, announces “MOVING BACK” and falls back to the next position of cover as quickly as possible.</li> <li>- Once in position, Student Number 1 commands Student Number 2 to “MOVE BACK.”</li> <li>- When ready, Student Number 2 then requests “COVER,” to which Student Number 1 replies “READY,” then engages all targets with suppressive covering fire.</li> <li>- Student Number 2 announces “MOVING BACK,” as they move back to the next position of cover.</li> <li>- The sequence of moving back under suppressive fire continues until both students have reached the last position of cover and all ammunition is expended.</li> </ul>

“Cease Fire!”	<input type="checkbox"/>	- Students will clear weapons and await further instruction.
<b>Order 4--Fire-Team Assault (with cover) (2, 15rd magazines) <b>REQUIRES ONE RSO PER TWO-MEMBER TEAM</b></b>		
<b>Instructor Command</b>	<b>Complete</b>	<b>Student Actions</b>
“Load!”	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- students load with a 15-round magazine, chamber empty, and place a 15-round magazine in their pouch..</li> <li>- Students begin 7-10 meters from the barricade in the depressed ready position and face to the right or left, perpendicular to the target line.</li> </ul>
“Contact Left or Right!”	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- All members immediately move to the nearest barricade and charge their weapons.</li> <li>- Team Number 1 provides suppressive cover fire by engaging all targets and command Team Number 2 to “MOVE UP” to the next position of cover. Team Number 2 requests “COVER,” to which Team Number 1 replies “READY.” Team Number 2 then announces “MOVING UP,” places the weapon on Safe, assumes the depressed ready or high port position and moves to the next covered firing position. Once in position, Team Number 2 announces “MOVE UP.” Team Number 1 requests Team Number 2 to “COVER.” Team Number 2 responds with “READY,” at which time Team Number 1 announces “MOVING UP.” Team Number 1 then places their weapons on Safe, assumes the depressed ready or high port position and moves forward to the next position of cover. The teams continue moving forward until both teams reach the last position of cover.</li> <li>- The Fire-Team leader will be responsible for issuing movement commands.</li> </ul>
“Cease Fire!”	<input type="checkbox"/>	- Students will clear weapons and await further instruction.

<b>Order 5--Fire-Team Withdrawal (with cover) (2, 15rd magazines) <b>REQUIRES ONE RSO PER TWO-MEMBER TEAM</b></b>		
<b>Instructor Command</b>	<b>Complete</b>	<b>Student Actions</b>
“Load!”	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Students load with a 15-round magazine, with chamber empty and place a 15-round magazine in their pouch.</li> <li>- Students begin 7-10 meters from the barricade in the depressed ready position and face to the right or left, perpendicular to the target line.</li> </ul>
“Contact Left or Right!”	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- All students will move to the nearest position of cover and charge their weapons.</li> <li>- Team Number 1 commands “MOVE BACK.” Team Number 2 then requests “COVER,” to which Team Number 1 responds with “READY” and engages all targets with suppressive covering fire. Team Number 2 then places the weapons on Safe, assumes the high port position, faces to the rear and announce “MOVING BACK,” as they fall back to the next position of cover as quickly as possible. Once in position, Team Number 2 commands Team Number 1 to “MOVE BACK.” Team Number 1 then requests “COVER,” to which Team Number 2 responds with “READY” and engages all targets with suppressive covering fire. Team Number 2 places their weapons on Safe, assumes the high port position and announces “MOVING BACK,” as they fall back to the next position of cover.</li> <li>- The teams continue this sequence of fire and maneuver until they reach the last barricade and all rounds have been expended.</li> <li>- The Fire-Team leader will be responsible for issuing movement commands.</li> </ul>
“Cease Fire!”	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Students will clear weapons and await further instruction.</li> </ul>

**Table 3: SMC Team Skills (Lateral Movement)****Order 1--Two-Man Lateral Movement (2, 15rd magazines) REQUIRES ONE RSO PER STUDENT**

<b>Instructor Command</b>	<b>Complete</b>	<b>Student Actions</b>
"Load!"	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Students load with a 15-round magazine, chamber empty and place a 15-round magazine in their pouch.</li> <li>- Students begin 7-10 meters from the barricade in the Depressed Ready position and face to the right or left, perpendicular to the target line.</li> </ul>
"Contact Left or Right!"	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Both students will move to the nearest position of cover and charge their weapons.</li> <li>- Both students move to the first position of cover, on the right side of the range and charge their weapons. Student Number 1 (Team Leader) provides suppressive cover fire by engaging all targets and commands Student Number 2 to "MOVE LEFT" to the next position of cover. Student Number 2 responds with "COVER." Student Number 1 acknowledges with "READY," after which Student Number 2 announces "MOVING LEFT," places the weapon on Safe, assumes the depressed ready or high port carry position and move left by traveling behind Student Number 1 to the next covered firing position. As students pass behind each other, they slap the covering team member on the shoulder to let them know they are passing by. Once Student Number 2 is in place, they issue the "Move Left" command. Student Number 1 requests, "COVER." Student Number 2 announces "READY." Student Number 1 announces "MOVING LEFT" and moves behind Student Number 1 to the next covered firing position. The team continues moving to the left until one member reaches the last position of cover. At this time, the two-member team reverses direction and re-accomplishes the sequence while moving laterally to the right. Students remove their finger from the trigger and place the selector lever to Safe prior to moving to the next position.</li> </ul>
"Cease Fire!"	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Students will clear weapons and await further instruction.</li> </ul>

<b>Order 2--Fire-Team Lateral Movement (2, 15rd magazines) <b>REQUIRES ONE RSO PER TWO-MEMBER TEAM</b></b>		
<b>Instructor Command</b>	<b>Complete</b>	<b>Student Actions</b>
“Load!”	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Students load with a 15-round magazine, chamber empty and place a 15-round magazine in their pouches.</li> <li>- Students begin 7-10 meters from the barricade in the depressed ready position and face to the right or left, perpendicular to the target line.</li> </ul>
“Contact Left or Right!”	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Team Number 1 provides suppressive cover fire by engaging all targets and commands Team Number 2 to “MOVE RIGHT” to the next position of cover. Team Number 2 requests “COVER,” to which Team Number 1 replies “READY.” Team Number 2 then announces “MOVING RIGHT,” places their weapons on Safe, assumes the depressed ready or high port position and moves right behind the covering team to the next covered firing position. Once in position, Team Number 1 commands Team Number 2 to “COVER.” Team Number 2 engages the targets and provides suppressive covering fire for Team Number 1 to move. Team Number 2 responds with “READY,” at which time Team Number 1 announces “MOVING RIGHT.” Team Number 1 then places their weapons on Safe, assumes the depressed ready or high port position and moves right behind Team Number 2 to the next position of cover. The teams continue moving to the right until reaching the last position of cover. At this time, the teams reverse direction and re-accomplish the sequence while moving laterally to the left.</li> </ul>
“Cease Fire!”	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>- Teams will clear weapons and await further instruction.</li> </ul>

<b>BEFORE DECLARING THE RANGE "COLD" COMPLETE THE FOLLOWING:</b>		
<b>Item</b>	<b>Complete</b>	<b>Comments</b>
<b>RSOs</b> instruct all personnel with weapons to face in a safe direction and clear weapons. Ensure that the weapons are clear and <b>ROD</b> each barrel to ensure it is free from any obstructions. Account for all personnel, weapons and equipment. All items must be accounted for and checked by the RSOs.	<input type="checkbox"/>	
<b>CRO</b> will declare the range "COLD". All personnel may then remove PPE.	<input type="checkbox"/>	
<b>CRO/RSOs</b> conduct debrief/after action review.	<input type="checkbox"/>	
Once all training is complete, account for all weapons/magazines/equipment prior to departing the Safe Zone. ( <b>CRO and RSOs</b> )	<input type="checkbox"/>	
<b>CRO</b> , students will conduct a strip-grid walk of the training area to collect brass.	<input type="checkbox"/>	
<b>RSOs</b> ensure all SMC equipment issued to students is returned. ( <i>Eye Pro/Holsters</i> )	<input type="checkbox"/>	

## Attachment 10

## OPERATOR INSTRUCTIONS FOR M4/M4A1 CARBINES

Table A10.1. Operator Instructions for M4/M4A1 Carbines.

<b>M4 Close Combat Mission Capability Kit (CCMCK) <u>Installation</u></b> (Reference- Army T.M. 9-6920-3700-10/Air Force T.O. 11W2-9-4-11)		
<b>Instruction</b>	<b>Complete</b>	<b>Comments</b>
Point weapon in a safe direction. <b>Ensure the weapon is clear and unloaded.</b>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>•Only use hand pressure to push takedown pin far enough to disengage upper receiver from lower receiver. Excessive force may cause weapon damage.</li> </ul>
Push takedown pin as far as it will go. Pivot upper receiver from lower receiver.	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>•To prevent personnel injury, <b><i>DO NOT</i></b> interchange service bolts between weapons.</li> </ul>
Pull charging handle back and remove service bolt carrier from weapon. Set bolt carrier aside.	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>•Take appropriate steps to ensure that the same service bolt is put back in the weapon from which it was removed.</li> </ul>
Ensure weapon is clean and lubricated with CLP. Ensure chamber and bore are <b>DRY</b> .	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>•Before installing CCMCK Weapon Conversion Kit, weapon must be cleaned and lubricated with CLP.</li> </ul>
Using CLP, <b>lightly</b> lubricate CCMCK bolt and carrier assembly surface. Ensure face of bolt is <b>DRY</b> .	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>•Weapon chamber and bore, and face of CCMCK training bolt must be cleaned and wiped <b>DRY</b> to properly fire CCMCK ammunition.</li> </ul>
With upper and lower receivers pivoted away from each other, slide CCMCK bolt and carrier assembly into upper receiver.	<input type="checkbox"/>	
Push charging handle, bolt and carrier assembly together into upper receiver until fully seated.	<input type="checkbox"/>	
Ensure selector lever is on SAFE. Close upper and lower receiver. Using hands only, push IN takedown pin as far as it will go.	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>• To prevent weapon damage, selector lever must be on SAFE before closing upper receiver.</li> </ul>
Perform a function check. The weapon is now converted to use CCMCK marking ammunition.	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>• As a safety design feature, the ejection port cover of the service weapon will not close when the CCMCK bolt is installed.</li> </ul>
<b>M4 Close Combat Mission Capability Kit (CCMCK) <u>Removal</u></b> (Reference- Army T.M. 9-6920-3700-10/Air Force T.O. 11W2-9-4-11)		
<b>Instruction</b>	<b>Complete</b>	<b>Comments</b>
Point weapon in a safe direction. Clear/unload weapon.	<input type="checkbox"/>	Only use hand pressure to push takedown pin far enough to disengage upper receiver from lower receiver. Excessive force may cause weapon damage.

Push takedown pin as far as it will go. Pivot upper receiver from lower receiver.	<input type="checkbox"/>	
Pull charging handle back and remove CCMCK bolt and carrier assembly. Set aside for cleaning.	<input type="checkbox"/>	
<b>ROD THE BORE FOR POSSIBLE STUCK PROJECTILES.</b>	<input type="checkbox"/>	<i>Failure to inspect and clean the chamber and bore before firing service ammunition can result in personnel injury or catastrophic damage to the weapon if a CCMCK marking projectile remains lodged in the bore.</i>
Inspect, clean, and lubricate weapon paying special attention to chamber and bore, ensuring all CCMCK marking compound is removed.	<input type="checkbox"/>	
Before turn-in of CCMCK Weapon Conversion Kit, thoroughly clean all components with CLP. Use a suitable cloth to clean any dirt, debris, carbon deposits, or marking compound.	<input type="checkbox"/>	

## Attachment 11

## OPERATOR INSTRUCTIONS FOR M9/M18

Table A11.1. Operator Instructions for M9/M18.

M9/M18 Close Combat Mission Capability Kit (CCMCK) <u>Installation</u> (Reference- Army T.M. 9-6920-3700-10/Air Force T.O. 11W2-9-4-11)		
Instruction	Complete	Comments
Point weapon in a safe direction. Ensure the weapon is clear and unloaded.	<input type="checkbox"/>	<b><u>Before performing any conversion procedures, ensure weapon is clear/unloaded.</u></b>
Allow slide to return fully FORWARD.	<input type="checkbox"/>	Ensure decocking/safety lever is on SAFE (down) position before disassembly and reassembly of M9/M18 Pistol.
Hold pistol in the right hand with muzzle slightly elevated. With forefinger of right hand, press disassembly release button, and with thumb of left hand, rotate disassembly lever DOWNWARD until it stops.	<input type="checkbox"/>	<b>DO NOT</b> allow hammer to fall with full force by pulling the trigger when the slide is removed as damage to the receiver will occur. If necessary, the hammer should be manually lowered.
Pull the slide and barrel assembly FORWARD and remove. Set receiver assembly aside.	<input type="checkbox"/>	
Slightly compress recoil spring and spring guide. Allow recoil spring to expand slowly and, at the same time, lift and remove recoil spring and spring guide from slide recoil housing. Set recoil spring/guide aside.	<input type="checkbox"/>	Use care when removing recoil spring and spring guide. Due to the amount of compression, assembly will be released under spring tension and could cause injury to personnel or become damaged or lost.
Push IN on locking block plunger while pushing M9/M18 barrel assembly slightly FORWARD. Lift and remove barrel assembly from slide. Set M9/M18 service barrel aside.	<input type="checkbox"/>	
Ensure slide assembly, recoil spring, recoil spring guide, and receiver assembly are inspected, cleaned and <b>lightly</b> lubricated with CLP.	<input type="checkbox"/>	
Ensure CCMCK barrel assembly is cleaned and lightly lubricated with CLP and bore and chamber area are cleaned with CLP and wiped dry. Use a suitable cloth if needed.	<input type="checkbox"/>	
Grasp slide with bottom facing UP.	<input type="checkbox"/>	
Insert muzzle of blue CCMCK barrel assembly into forward open end of slide. At the same time, lower rear of CCMCK barrel assembly by aligning extractor cutout with extractor. Ensure barrel assembly is fully seated on lip inside slide.	<input type="checkbox"/>	

Insert end of recoil spring and recoil spring guide into slide recoil spring housing. At the same time, compress recoil spring and lower spring guide until fully seated onto locking block cutaway.	<input type="checkbox"/>	During spring insertion, spring tension must be maintained until spring guide is fully seated onto the cutaway on the locking block.
Check to ensure hammer is uncocked and firing pin block lever is in the DOWN position. If hammer is cocked, manually lower the hammer.	<input type="checkbox"/>	Be sure hammer is uncocked and firing pin block lever is in the DOWN position. <b>DO NOT</b> pull trigger while placing slide onto receiver. Ensure decocking/safety lever is on SAFE (down) position before disassembly and reassembly of M9/M18 Pistol.
Grasp slide and barrel assembly with sights UP and align slide onto receiver assembly guide rails.	<input type="checkbox"/>	
Push until rear of slide is a short distance beyond rear of receiver assembly and hold. At the same time, rotate disassembly lever UPWARD to lock it in place. A click indicates a positive lock.	<input type="checkbox"/>	
Perform function check	<input type="checkbox"/>	
The weapon is now converted to use CCMCK marking ammunition.	<input type="checkbox"/>	
<b>M9/M18 Close Combat Mission Capability Kit (CCMCK) <u>Removal</u></b> (Reference- Army T.M. 9-6920-3700-10/Air Force T.O. 11W2-9-4-11)		
<b>Instruction</b>	<b>Complete</b>	<b>Comments</b>
Point weapon in a safe direction. Clear/unload weapon.	<input type="checkbox"/>	
Allow slide to return fully FORWARD.	<input type="checkbox"/>	
Hold pistol in right hand with muzzle slightly elevated. With forefinger of right hand, press disassembly release button and, with thumb of left hand, rotate disassembly lever DOWNWARD until it stops.	<input type="checkbox"/>	Ensure decocking/safety lever is on SAFE (down) position before disassembly and reassembly of M9/M18 Pistol.
Pull slide and barrel assembly FORWARD and remove. Set receiver assembly aside.	<input type="checkbox"/>	<b>DO NOT</b> allow hammer to fall with full force by pulling the trigger when the slide is removed as damage to receiver will occur. If necessary, the hammer should be manually lowered.
Slightly compress recoil spring and spring guide. Allow recoil spring to expand slowly and, at the same time, lift and remove recoil spring and spring guide from slide recoil housing. Set recoil spring and spring guide aside.	<input type="checkbox"/>	Wear approved goggles and use care when removing recoil spring and spring guide. Due to the amount of compression, assembly will be released under spring tension and could cause injury to personnel or become damaged or lost.

Push in on locking block plunger while pushing CCMCK barrel assembly slightly FORWARD. Lift and remove CCMCK barrel assembly from slide. Set barrel aside.	<input type="checkbox"/>	
Inspect, clean and lubricate weapon components, ensuring all marking compound is removed.	<input type="checkbox"/>	
Before Turn-in of CCMCK Weapon Conversion Kit, thoroughly clean all CCMCK components with CLP. Use a suitable cloth to wipe any dirt, debris, carbon deposits, or marking compound.	<input type="checkbox"/>	

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## Attachment 12

## OPERATOR INSTRUCTIONS FOR M249

Table A12.1. Operator Instructions for M249.

*****M249 Close Combat Mission Capability Kit (CCMCK) Installation (Reference- Army T.M. 9-6920-3700-10/Air Force T.O. 11W2-9-4-11)		
Instruction	Complete	Comments
Point weapon in a safe direction. Ensure the weapon is clear and unloaded.	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>• <u>Before performing any conversion procedures, ensure weapon is clear/unloaded.</u></li> </ul>
If bolt is situated at the rear, push safety to LEFT (RED BAND will be visible). Pull cocking handle to the rear. Hold cocking handle with one hand, press trigger and ride the bolt slowly FORWARD.	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>• To prevent personnel injury, DO NOT interchange service bolts between weapons. Take appropriate steps to ensure that the same service bolt is put back in the weapon from which it was removed.</li> <li>• To prevent personnel injury, ensure M249 bolt is in FORWARD position before removing return rod and transfer mechanism assembly and spring.</li> </ul>
Squeeze cover latches together and raise cover assembly.	<input type="checkbox"/>	
Check to ensure bolt is in FORWARD position.	<input type="checkbox"/>	
Pull upper retaining pin at rear of receiver to the LEFT. Let buttstock and buffer assembly pivot DOWNWARDS so that rear opening on receiver is completely free.	<input type="checkbox"/>	
Holding weapon with one hand on the buttstock, simultaneously push IN and UPWARD on rear of return rod and transfer mechanism assembly with thumb of other hand. Return rod and transfer mechanism assembly is now released from positioning groove inside receiver. Withdraw the return rod and transfer mechanism assembly with spring and set aside.	<input type="checkbox"/>	
Pull cocking handle REARWARD and remove bolt and slide assembly and operating rod assembly from rear of receiver.	<input type="checkbox"/>	
To separate M249 bolt and slide assembly from piston assembly, press retaining pin on bolt and slide assembly and lift off. Set M249 service bolt and slide assembly aside.	<input type="checkbox"/>	

<p>Compress both legs of ejector clip together and pull M249 service ejector blade assembly from receiver. Set M249 service ejector blade assembly aside.</p>	<input type="checkbox"/>	
<p>Ensure weapon is cleaned and lubricated with CLP IAW TM 9-1005-201-10. Ensure chamber and bore are DRY.</p>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>• Before installing CCMCK Weapon Conversion Kit, weapon must be cleaned and lubricated with CLP.</li> <li>• Weapon chamber and bore and face of CCMCK training bolt must be cleaned and wiped DRY to properly fire CCMCK ammunition.</li> </ul>
<p>Position cartridge ejector end of CCMCK ejector blade assembly to the front of the receiver and position hooked end of ejector clip behind ejector blade.</p>	<input type="checkbox"/>	
<p>Install ejector pin into hole in left side of receiver, compress short leg of ejector clip, and install CCMCK ejector blade assembly in receiver recess.</p>	<input type="checkbox"/>	
<p>Using CLP, lightly lubricate CCMCK bolt and slide assembly surface. Ensure face of bolt is DRY.</p>	<input type="checkbox"/>	
<p>Place CCMCK bolt and slide assembly onto piston assembly in exactly the same manner as the service bolt and slide assembly. Align both holes and push in retaining pin to secure them together.</p>	<input type="checkbox"/>	
<p>Put bolt into receiver with feed cover open. Locate the piston into the rear of the gas cylinder. Press the trigger so that the sear does not prevent the moving parts from going forward.</p>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>• Improper assembly of the transfer mechanism can cause damage to the receiver and/or the assembly itself. If the horizontal pins of the transfer assembly are not placed in the hooks inside the receiver, when the buttstock is pivoted in the UP position for pinning, the receiver hooks can be bent.</li> <li>• Ensure that headed end of vertical pin in transfer mechanism assembly is up (on top). If horizontal pins of transfer assembly are rotated to a vertical position and bottom pin is hooked into the lightening hole in bottom of receiver, the pin can be sheared, damaged or lost when the weapon is fired.</li> </ul>

Hold pistol grip with one hand. Use other hand to place return rod and transfer mechanism assembly, with headed end UP, into the housing in the rear of the piston. Use thumb to press IN and DOWN on the rear of the return rod and transfer mechanism assembly until both horizontal pins are positioned in the receiver hooks.	<input type="checkbox"/>	
Pivot buttstock and buffer assembly UPWARD into position and push upper retaining pin to the RIGHT to secure.	<input type="checkbox"/>	
Check to ensure bolt is fully FORWARD.	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>If CCMCK feed tray adapter is not installed correctly, forcing cover assembly to close will damage feed tray adapter.</li> </ul>
Place blue CCMCK feed tray adapter onto weapon feed tray. Place spring clip over groove on the forward tray arc located on the side of the weapon that the ammunition feeds from.	<input type="checkbox"/>	
Close cover assembly.	<input type="checkbox"/>	
Perform function check IAW TM 9-1005-201-10. The weapon is now converted to use CCMCK marking ammunition.	<input type="checkbox"/>	
Go to Chapter 2, Section III, Safety Equipment, to put on mandatory safety equipment required for CCMCK training.	<input type="checkbox"/>	
<b>M249 Close Combat Mission Capability Kit (CCMCK) Removal</b> (Reference- Army T.M. 9-6920-3700-10/Air Force T.O. 11W2-9-4-11)		
Point weapon in a safe direction. Clear/unload weapon	<input type="checkbox"/>	
If bolt is situated at the rear, push safety to LEFT (RED BAND will be visible). Pull cocking handle to the rear. Hold cocking handle with one hand, press trigger and ride the bolt slowly FORWARD.	<input type="checkbox"/>	
Squeeze cover latches together and raise cover assembly.	<input type="checkbox"/>	
Remove blue CCMCK feed tray adapter.	<input type="checkbox"/>	
Check to ensure bolt is in FORWARD position.	<input type="checkbox"/>	
Pull upper retaining pin at rear of receiver to the LEFT. Let buttstock and buffer assembly pivot DOWNWARD so that rear opening on receiver is completely free.	<input type="checkbox"/>	

<p>Holding weapon with one hand on the buttstock, simultaneously push IN and UPWARD on rear of return rod and transfer mechanism assembly with thumb of other hand. Return rod and transfer mechanism assembly is now released from positioning groove inside receiver. Withdraw return rod and transfer mechanism assembly with spring and set aside.</p>	<input type="checkbox"/>	
<p>Pull cocking handle REARWARD and remove CCMCK bolt and slide assembly and operating rod assembly from rear of receiver.</p>	<input type="checkbox"/>	
<p>To separate M249 CCMCK bolt and slide assembly, press retaining pin on slide assembly and lift off. Set M249 CCMCK bolt and slide assembly aside.</p>	<input type="checkbox"/>	
<p>Compress both legs of ejector clip together and pull M249 CCMCK ejector blade assembly from receiver. Set M249 CCMCK ejector blade assembly aside.</p>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>• Failure to inspect and clean the chamber and bore before firing service ammunition can result in personnel injury or catastrophic damage to the weapon if a CCMCK marking projectile remains lodged in the bore.</li> </ul>
<p><b>ROD THE BORE FOR POSSIBLE STUCK PROJECTILES.</b></p>	<input type="checkbox"/>	
<p>Inspect, clean, and lubricate weapon IAW TM 9-1005-201-10 paying special attention to the chamber and bore, ensuring all CCMCK marking compound is removed.</p>	<input type="checkbox"/>	
<p>Before Turn-in of CCMCK Weapon Conversion Kit, thoroughly clean all components with CLP. Use a suitable cloth to clean any dirt, debris, carbon deposits, or marking compound.</p>	<input type="checkbox"/>	