

## CRM LESSON PLAN REPORT

CONFIRM CCO ZERO (BCT RM PD 10)  
071-BT071050 / 5.02 ©

Approved  
19 Jul 2021

Effective Date: 19 Jul 2021

### SCOPE:

This is a continued opportunity to conduct Shooter analysis and identify areas for improvement in the application of the elements of the shot process while firing live ammunition with the M4A1 Carbine. Concurrent Training is recommended to constantly improve upon the elements of the shot process. Remedial Training is required for those Trainees that fail to meet the prescribed standards. Drill Sergeants must place emphasis on the firer seeing the dot in the optic (Do not have the dot so bright that it washes out the target). Remind the firer that the target will be blurry; but as long as they can see the dot clearly, they will hit the target. The most important step in the zeroing process is zero confirmation out to 300 meters. Having a 25m zero does not guarantee a center hit at 300 meters. The only way to truly rely on a 300m hit is to confirm a 300m zero. This lesson plan covers a zero refinement exercise at 100 meters, a zero refinement exercise at 200 meters and a zero confirmation at 300 meters.

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**Distribution Restriction:** Distribution authorized to U.S. Government agencies and their contractors only due to the references used in this lesson plan.. This determination was made on 13 July 2021. Insert W6NFAA

**Destruction Notice:** Destroy by any method that will prevent disclosure of contents or reconstruction of the document

**Foreign Disclosure: FD3** - This training product has been reviewed by the developers in coordination with the MCoE G2 foreign disclosure officer. This training product cannot be used to instruct international military students.

**SECTION I. ADMINISTRATIVE DATA**

**All Course Masters/POIs Including This Lesson**

<b>Courses</b>				
<u>Course Number</u>	<u>Version</u>	<u>Title</u>	<u>Phase</u>	<u>Status</u>
750-BT	11.0	Basic Combat Training	N/A	Analysis

<b>POIs</b>				
<u>POI Number</u>	<u>Version</u>	<u>Title</u>	<u>Phase</u>	<u>Status</u>
31B10-OSUT	21.0 ©	Basic Military Police	0	Analysis
12C10-OSUT	20.0 ©	Bridge Crewmember	0	Analysis
750-BT	11.0 ©	Basic Combat Training	0	Analysis
12C10-OSUT (ST)	20.0 ©	Bridge Crewmember	0	Analysis

**Task(s) Taught(\*) or Supported**

<u>Task Number</u>	<u>Task Title</u>	<u>Status</u>
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**Reinforced Task(s)**

<u>Task Number</u>	<u>Task Title</u>	<u>Status</u>
071-705-0014	Engage Targets Using the M68 Close Combat Optic (CCO) on a M16 Series Rifle or M4 Series Carbine	Approved
071-705-0003	Zero an M68 Sight (Close Combat Optic) to a M16-Series Rifle/M4-Series Carbine	Approved
071-COM-0033	Correct Malfunctions of an M16-Series Rifle/M4-Series Carbine	Approved
071-COM-0029	Perform a Function Check on an M16-Series Rifle/M4-Series Carbine	Approved
071-COM-0032	Maintain an M16-Series Rifle/M4-Series Carbine	Approved
071-705-0002	Operate an M68 Sight (Close Combat Optic)	Approved
071-COM-0028	Load an M16-Series Rifle/M4-Series Carbine	Approved
071-705-0001	Maintain an M68 Sight (Close Combat Optic)	Approved
071-COM-0027	Unload an M16-Series Rifle/M4-Series Carbine	Approved

**Knowledge**

<u>Knowledge Id</u>	<u>Title</u>	<u>Taught</u>	<u>Required</u>
071-WPN-0067	Knowledge of Firing Positions	No	Yes
071-WPN-0068	Knowledge of Firing Techniques	No	Yes
071-WPN-0069	Zeroing Techniques	No	Yes

**Skill**

<u>Skill Id</u>	<u>Title</u>	<u>Taught</u>	<u>Required</u>
S0292	Explain the basics of marksmanship fundamentals with a rifle	No	Yes
071-WPN-0009	Zero Infantry Weapons	No	Yes

**Administrative/Academic Hours**

The administrative/academic (50 min) hours required to teach this lesson are as follows:

<u>Academic</u>	<u>Resident Hours / Methods</u>		
Yes	0 hrs	5 mins	Reflective Discussion
Yes	7 hrs	5 mins	Practical Exercise (Hands-On/Written)
Yes	0 hrs	40 mins	Discussion (Small or Large Group)
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Total Hours(50 min):	8 hrs	0 mins	

**Instructor Action Hours**

The instructor action (60 min) hours required to teach this lesson are as follows:

Hours/Actions

1 hrs	0 mins	Training Event Clean-up/Breakdown (non-FTX)
1 hrs	0 mins	Training Event Prep/Setup (non-FTX)

Total Hours (60 min): 2 hrs 0 mins

**Test Lesson(s)**

Hours                      Lesson Number Version                      Lesson Title

None

**Prerequisite Lesson(s)**

Hours                      Lesson Number Version                      Lesson Title

8 hrs	0 min	071-BT071048 Version 5.01 ©	Introduction to Optics and Lasers (Simulator) (BCT RM PD 8)
8 hrs	0 min	071-BT071049 Version 5.01 ©	CCO Group and Zero (BCT RM Pd 9)

**Training Material Classification**

Security Level: This course/lesson will present information that has a Security Classification of: CUI – Controlled Unclassified Information.

**Foreign Disclosure Restrictions**

FD3. This training product has been reviewed by the developers in coordination with the MCoE G2 foreign disclosure officer. This training product cannot be used to instruct international military students.

**References**

<u>Number</u>	<u>Title</u>	<u>Date</u>
AR 385-10	The Army Safety Program	24 Feb 2017
AR 385-63	Range Safety (MCO 3570.1C)	30 Jan 2012
ATP 3-34.5	Environmental Considerations	10 Aug 2015
ATP 5-19	RISK MANAGEMENT, with change 1 dated 8 Sep 2014	14 Apr 2014
PAM 385-10	ARMY SAFETY PROGRAM (*RAR 003, 01/19/2010)	23 May 2008
PAM 385-63	Range Safety	16 Apr 2014
TC 3-20.40	Training and Qualification - Individual Weapons	01 Jul 2019
TC 3-22.9	Rifle and Carbine	13 May 2016
TM 9-1005-319-10	OPERATOR'S MANUAL FOR RIFLE, 5.56 MM, M16A2 (NSN 1005-01-128-9936), (EIC: 4GM) RIFLE, 5.56 MM, M16A3 (NSN 1005-01-357-5112) RIFLE, 5.56 MM, M16A4 (NSN 1005-01-383-2872) (EIC: 4F9) CARBINE, 5.56 MM, M4 (Change 2 Dated 15 April 2019)	01 Aug 2016
TM 9-1240-413-13&P	OPERATOR AND FIELD MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR M68 SIGHT, REFLEX, W/QUICK RELEASE MOUNT AND SIGHT MOUNT (COMP M2: NSN 1240-01-411-1265) (COMP M4: NSN 1240-01-540-3690) {AF TO 11W3-5-5-121}	04 May 2013
TRADOC PAM 600-4	The Soldiers Blue Book	01 Aug 2019
TRADOC REG 350-6	Enlisted Initial Entry Training Policies and Administration <a href="http://www.tradoc.army.mil/tpubs/regs/TR350-6.pdf">http://www.tradoc.army.mil/tpubs/regs/TR350-6.pdf</a>	09 Aug 2019

**Student Study Assignment**

TRADOC PAM 600-4, IET Soldiers Handbook.

**Instructor Requirements**

All Instructors must be:

- Instructor Certified.
- Knowledgeable on TC 3-20.40, Training and Qualification-Individual Weapons and TC 3-22.9, Rifle and Carbine.
- Trained and experienced in Rifle Marksmanship.

**Support Personnel Requirements**

None

**Additional  
Support  
Personnel  
Requirements**

<u>Name</u>	<u>Student Ratio</u>	<u>Qty</u>	<u>Man Hours</u>
Driver Remarks:	0:0	4	16.0
Operations NCO Remarks:	0:0	1	16.0
Tower Operator Remarks:	0:0	1	16.0
Ammunition NCO Remarks:	0:0	1	16.0
Bus Driver Remarks:	0:0	5	8.0
Combat Lifesaver Remarks:	0:0	1	16.0
Range Technician Remarks:	0:0	1	16.0
Range NCOIC Remarks:	0:0	1	16.0
Range OIC Remarks:	0:0	1	16.0

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**Equipment  
Required  
for Instruction**

<u>ID - Name</u>	<u>Student Ratio</u>	<u>Instructor Ratio</u>	<u>Spt</u>	<u>Qty</u>	<u>Exp</u>
* DIME WASHER - TRAINING DEVICE: DIME WASHER (Local TADSS – Not in TSMATS/PAM 25-30) Remarks:	5:50		0	0	No
* DVC-T07-26 - M15A1 AIMING CARD (Local TADSS – Not in TSMATS/PAM 25-30) Remarks:	5:50		0	0	No
* DVC-T7-86-1 - TARGET BOX AND PADDLE (Local TADSS – Not in TSMATS/PAM 25-30) Remarks:	5:50		0	0	No
* GTA 08-12-001 - Manual of Applied Performance Skills (MAPS) Remarks:	0:0				No
* T 07-087 - Riddle Sighting Device Remarks:	5:50		0	0	No
* TAD-26A - FRONT AND REAR SIGHT MOCK-UP M16A2 (Local TADSS – Not in TSMATS/PAM 25-30) Remarks:	2:200		0	0	No
1005-01-363-0199 - Loader, Magazine Remarks:	1:1	0:0	No	0	No
1005-01-382-0953 - Carbine, 5.56 Millimeter: M4A1 Remarks:	1:1	0:0	No	0	No
1005-01-526-7294 - Cleaning Kit, Gun, M16A2, M4A1 Rifle 5.56MM Remarks:	1:1	0:0	No	0	No
1005-01-630-9508 - 30 Round Magazine Assembly Remarks:	7:1	0:0	No	0	No
102-71C-2126 - FIELD LITTER, GREEN Remarks:	0:0	0:0	Yes	4	No
1240-01-411-1265 - Sight, Reflex Collimator: XM68 Remarks:	1:1	0:0	No	0	No
1240-01-557-1897 - Sight Bore Optical: M150 Remarks:	0:0	0:0	Yes	8	No
2310-01-090-7709 - Bus Transit 44 Passenger Remarks:	1:44	0:0	No	0	No
2320-01-090-7834 - Truck Carryall 1- 1/2 Ton 8500 GVW Remarks:	0:0	0:0	Yes	1	No
2330-01-108-7367 - Trailer Water: M149A2 Remarks:	0:0	0:0	Yes	1	No
4110-01-485-3626 - Chest, Ice Storage, White, 48 Quart Capacity 2S Remarks:	0:0	0:0	Yes	4	No
4210-00-965-1115 - Dry Chemical, Fire Extinguisher, Ammonium Phosphate, 50 Pounds Remarks:	0:0	0:0	Yes	4	No
5820-01-017-3742 - Radio Set Base Station: L43BBB-3100AM Remarks:	0:0	0:0	Yes	1	No
5820-01-243-4960 - Radio 10 Channel, Portable, Motorola: MDL-Q2 Remarks:	0:0	0:0	Yes	8	No
6135-00-643-1309 - BATTERY, NONRECHARGEABLE Remarks:	2:1	0:0	Yes	20	No
6508-01-499-8104 - Dawn, Antibacterial Hand Soap, 25 Fluid Ounces 12S Remarks:	0:0	0:0	Yes	2	No

6515-01-363-4495 - THERMOMETER,CLINICAL,HUMAN Remarks:	0:0	0:0	Yes	4	No
6530-01-260-1222 - Rescue and Transport System, Patient Remarks:	0:0	0:0	Yes	4	No
6545-01-532-3674 - Medical Equipment Set, Combat Lifesaver, Version 2005, UA 245A Remarks:	0:0	0:0	Yes	4	No
6660-00-663-8090 - Anemometer: ML-433/PM Remarks: Must have a back-up	0:0	0:0	Yes	2	No
6665-01-381-3023 - Wet Bulb-Globe Temperature Kit Remarks:	0:0	0:0	Yes	1	No
6920-01-167-1395 - Target, Silhouette: 175 Meter Feedback M16A1 Series Remarks:	1:10	0:0	Yes	20	No
7210-00-081-1417 - Sheet, Bed, Cotton-Polyester, White, 104 X 72 Inches, Solid, Plain, Flat Remarks:	0:0	0:0	Yes	8	No
7240-00-089-3827 - Can, Water, Military: Plastic, 5-Gallon Capacity Remarks:	0:0	0:0	Yes	12	No
7330-00-781-3859 - Jug, Insulated, 5 Gallon Remarks:	0:0	0:0	Yes	4	No
7520-01-294-3720 - MARKERS, DRY ERASE Remarks:	0:0	2:1	Yes	2	No
8960-01-430-4378 - Ice, 8 Pounds Remarks:	1:10	0:0	Yes	8	No
9150-01-053-6688 - Cleaner, Lubricant and Preservative, 1 Gallon Bottle Remarks:	0:0	0:0	Yes	4	No

(Note: Asterisk before ID indicates a TADSS.)

**Materials Required**

*Instructor Materials:*

The Drill Sergeant will use the Center for Army Lessons Learned (CALL) website at <http://call.army.mil/> to get the most current and relevant information on Tactics, Techniques, and Procedures (TTPs) used in the Operational Environment (OE).

*Student Materials:*

TRADOC PAM 600-4, IET Soldiers Handbook.

**Classroom, Training Area, and Range Requirements**

<u>ID - Name</u>	<u>Quantity</u>	<u>Student Ratio</u>	<u>Setup Mins</u>	<u>Cleanup Mins</u>
17810-16-40 Known Distance (KD) Range, 16 Firing Points (Firing Ranges), 40 Acre Remarks: FP's and AC's will vary per Range.		1:200	30	30
17803-16-40 Automated Field Fire (AFF) Range, 16 Firing Points (Firing Ranges), 40 Acre Remarks: FP's and AC's will vary per Range.		1:200	30	30

**Ammunition Requirements**

<u>DODIC - Name</u>	<u>Exp</u>	<u>Student Ratio</u>	<u>Instruct Ratio</u>	<u>Spt Qty</u>
AB77 - Cartridge, 5.56 Millimeter Ball, M855A1, Clipped Bulk Pack Remarks: Increased from 40 to 50 Rds to adhere to the updated RM Strategy.	Y	50:1	0:0	

**Instructional Guidance/Conduct of Lesson**

**NOTE:** Before presenting this lesson, instructors must thoroughly prepare by studying this lesson and identified reference material.

**INSTRUCTOR NOTE:** This period may be fired on a LOMAH equipped range instead of the standard KD range.

**Main Effort: Zeroing Range**

1. Drill Sergeant to Trainees ratio must be maintained at 1:3 in order to ensure Trainee weapons are zeroed properly.
2. 1 Drill Sergeant must be devoted to running the verification process which ensures Trainees understand the elements of the shot process before they walk onto the range itself. An example of this verification process would be demonstrating 5 consecutive dime/washer drills successfully for BUIS.
3. 1 Drill Sergeant/RM Instructor must run the remedial training station. This must be a Drill Sergeant/RM Instructor in order to ensure remedial training is conducted properly.
4. Drill Sergeants/RM Instructor on the line will fill the role of safety, coach, and instructor.

**Proponent Lesson Plan Approvals**

<u>Name</u>	<u>Rank</u>	<u>Position</u>	<u>Date</u>
Joseph Hiner	Not available	Approver	19 Jul 2021

## SECTION II. INTRODUCTION

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Method of Instruction: Discussion (Small or Large Group)  
Mode of Delivery: Resident Instruction  
Instr Type (I:S Ratio): Military - NON-ICH (1:50) (DS)  
Time of Instruction: 5 mins

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### Motivator

Now you will confirm that you can hit a target at typical combat ranges with your optic. The battlefield is forever changing. You must be able to perform under any condition, and in any area around the world. Knowing or having a basic idea of what to expect based on the Operational Environment (OE) better prepares you to meet the challenges faced during times of war. The Drill Sergeants will use their past experiences and various scenarios that represent the Operational Environment (OE) in places the military is deployed around the world.

### Terminal Learning Objective

**NOTE.** Inform the students of the following Terminal Learning Objective requirements. At the completion of this lesson, you [the student] will:

Action:	Conduct Zero Refinement exercises at 300m with an M4 Carbine with assigned combat optic.
Conditions:	On a known distance range or AFF (LOMAH), given an M4 Carbine, assigned combat optic, sandbags for support, 50 rounds of 5.56mm ammunition, and E-1 or D-1 type targets at 100m, 200m, and 300m, while firing from the Prone Supported position and wearing your prescribed combat uniform.
Standards:	Confirm combat optic grouping and zero at 300 meters by: - Engaging a 100m E-1 or D-1 type target with 8 of 10 hits by firing 20 rounds (4 sets of 5 rounds) and, - Engaging a 200m E-1 or D-1 type target with 8 of 10 hits by firing 20 rounds (4 sets of 5 rounds) and, - Engaging a 300m E-1 or D-1 type target with 4 of 5 hits by firing 10 rounds (2 sets of 5 rounds).
Learning Domain - Level:	Psychomotor - Precision
No JPME Learning Areas Supported:	None

### Safety Requirements

Safety must be paramount in the complex outdoor environment. During the training process, Commanders will utilize the 5-Step Risk Management process to determine the safest and most complete method to train. Every precaution will be taken while replicating realistic battlefield conditions.

Safety is everyone's responsibility to recognize, mitigate, and report hazardous materials. DD Form 2977, Deliberate Risk Assessment Worksheet to be produced locally IAW ATP 5-19.

**INSTRUCTOR NOTE:** The Instructor will brief the units/site SOP and Deliberate Risk Assessment Worksheet for all potential contingencies encountered during the training period/event (i.e., severe weather, fire, evacuation routes, and rally points, etc.).

### Risk Assessment Level

#### **Low - Heat/ Cold Weather Injuries.**

Assessment: Ensure to check local weather reports prior to the execution of training. Drill Sergeants must conduct layouts prior to training to ensure all required clothing and equipment is present.



Controls: Drill Sergeants will monitor Trainees to ensure adequate hydration and nutrition. Drill Sergeants will ensure Trainees are wearing the appropriate clothing and protective gear for the local weather.

Leader Actions: Ensure DD Form 2977 is updated with the appropriate controls. Make sure every Drill Sergeant is aware of Controls prior to execution of training so they can take appropriate action.

### **Low - Interactions with local wildlife.**

Assessment: Check local listings of wildlife.

Controls: Ensure Drill Sergeants give a detailed Safety Brief prior to the execution of training to include what potentially hazardous animals and insects could be in the area. Drill Sergeants will monitor Trainees at all times.

Leader Actions: Ensure DD 2977 is updated with the appropriate controls. Ensure Drill Sergeants have to appropriate information prior to the execution of training.

### **Low - Interactions with poisonous plants.**

Assessment: Check local listings of potentially hazardous plants.

Controls: Drill Sergeants will give a detailed safety brief to include what types of poisonous plants are in the area, (sumac, poison oak/ivy). Drill Sergeants will ensure Trainees avoid the identified plants.

Leader Actions: Ensure DD 2977 is updated with the appropriate controls. Ensure Drill Sergeants have the appropriate information prior to the execution of Training.

### **Low - Hyponatremia.**

Assessment: Review the symptoms of Hyponatremia.

Controls: Drill Sergeants will monitor Trainee water consumption. Ensure the safety brief includes the symptoms of Hyponatremia.

Leader Actions: Ensure DD 2977 is updated with appropriate controls. Ensure Drill Sergeants have the appropriate information prior to the safety brief.

### **Low - Inclement weather.**

Assessment: Check local forecasts. Contact range control for more detailed information.

Controls: Drill Sergeants will brief Trainees what course of action to take for specific weather conditions (lightning, Tornadoes, etc.)

Leader Actions: Ensure DD 2977 is updated with appropriate controls. Ensure Drill Sergeants are aware of what weather is expected and where to take shelter if appropriate.

### **Low - Dehydration.**

Assessment: Check water levels in the unit water trailer prior to execution of training. Make sure Drill Sergeants check Trainees water is topped off prior to departure.

Controls: Drill Sergeants will include symptoms of dehydration in their safety brief. Drill Sergeants will monitor Trainees water Consumption.

Leader Actions: Ensure DD 2977 is updated with appropriate controls. Ensure Drill Sergeants have the appropriate information prior to the safety brief.

### **Low - Fratricide.**

Assessment: Review range/weapons safety procedures prior to training.

Controls: The Drill Sergeants will include range/weapons safety procedures in their safety brief. Drill Sergeants will

closely monitor trainees during the live fire portion of the training.

Leader Actions: Ensure DD 2977 is updated with appropriate controls. Ensure Drill Sergeants have the appropriate information prior to the safety brief.

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**Environmental  
Considerations**

**NOTE:** Instructor should conduct a risk assessment to include environmental considerations IAW the current environmental considerations publication, and ensure students are briefed on hazards and control measures.

Units and installations will prepare an environmental risk assessment using the before, during, and after checklist found in ATP 3-34.5, Appendix K. The checklist should supplement local and state environmental regulations applicable to your area.

**Instructional  
Lead-in**

You will now confirm the zero of your weapon by refining zero at 100 meters, 200 meters, and confirming at 300 meters. Confirming your zero may require minor changes to your sight adjustments in order to obtain the optimal zero of your weapon. However, you should not make major changes to your sights.

**SECTION III. PRESENTATION**

**NOTE:** Inform the students of the Enabling Learning Objective requirements.

**A. ENABLING LEARNING OBJECTIVE**

<b>ACTION:</b>	Conduct zero refinement exercise at 100m.
<b>CONDITIONS:</b>	On a known distance range or AFF (LOMAH): given an M4 Carbine, assigned combat optic, sandbags for support, 20 rounds of 5.56mm ammunition system, and targets at 100m while firing from the Prone Supported position and wearing your prescribed combat uniform (Shot groups should be between 3 to 5 inches high from point of aim).
<b>STANDARDS:</b>	Refine zero with a M4 Series Carbine by firing 20 rounds at 100m (4 sets of 5 rounds) and achieving 8 of 10 hits within a 6 inch circle from a Prone Supported firing position using your assigned combat optic.
<b>LEARNING DOMAIN - LEVEL:</b>	Psychomotor - Precision
<b>No JPME LEARNING AREAS SUPPORTED:</b>	None

ELO A - LSA 1. Learning Step / Activity ELO A - LSA 1. Receive Refine Zero Range Safety Brief.

Method of Instruction: Discussion (Small or Large Group)

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (3:50)(Drill Sergeants)

Time of Instruction: 5 mins

Media Type: Actual Equipment / Conference

Other Media: Unassigned

Security Classification: This course/lesson will present information that has a Security Classification of: U - Unclassified.

**INSTRUCTOR NOTE:** The Live fire range operations and safety brief is a range requirement.

I will now give you a range safety briefing.

Check on Learning:

Conduct a check on learning by asking questions, soliciting answers from Students and correcting misunderstandings. The following questioning prompts can be utilized to determine if the Students have achieved the desired level of learning and are capable of applying the information taught during this lesson:

What actions would you take to perform \_\_\_\_\_?

How would you develop \_\_\_\_\_ to present \_\_\_\_\_?

What other way would you choose to \_\_\_\_\_?

What would the result be if \_\_\_\_\_?

How would you demonstrate \_\_\_\_\_?

How would you present \_\_\_\_\_?

How would you change \_\_\_\_\_?

How would you modify \_\_\_\_\_?

How could you develop \_\_\_\_\_?

Why does \_\_\_\_\_ work?

How would you alter \_\_\_\_\_ to \_\_\_\_\_?

What examples can you find that \_\_\_\_\_?

How would you solve \_\_\_\_\_?

Review Summary:

**NOTE: Repeat the terminal learning objective of the lesson and summarize the learning step activity.**

**NOTE: Determine if the students have learned the material presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.**

**NOTE: Reiterate the Performance Enhancement Component(s) that can be utilized to accomplish the intended learning outcome(s).**

ELO A - LSA 2. Learning Step / Activity ELO A - LSA 2. Conduct a 100m Zero Refinement exercise with your assigned combat optic.

Method of Instruction: Practical Exercise (Hands-On/Written)

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (3:50)(Drill Sergeants)

Time of Instruction: 2 hrs 30 mins

Media Type: Actual Equipment / Equipment Based Instruction

Other Media: Unassigned

Security Classification: This course/lesson will present information that has a Security Classification of: U - Unclassified.

**INSTRUCTOR NOTE:** The firing line ratio should be 1 Drill Sergeant per 3 Trainees.

**INSTRUCTOR NOTE:** The Instructor must determine the crosswind speed on the range. If the crosswind exceeds five miles per hour, KD zeroing should not be attempted (TC 3-22.9).

**INSTRUCTOR NOTE:** Have both the firer and coach secure 2 magazines with 5 rounds per magazine and move to the firing line. You will engage targets at three different ranges on this KD range (or AFF/LOMAH) – the 100m, 200m, and 300m ranges. You will now refine your zero at 100 meters. If you believe you need to make sight adjustments then you must first get confirmation from your Drill Sergeant. DO NOT ADJUST FOR WIND. With a 300m zero the impact of the rounds should be 3 to 5 inches high if aiming center mass.

**INSTRUCTOR NOTE:** Ensure the Trainees fire 4 or 5-round shot groups. Do not use an adjusted aiming point. Make any sight changes only after confirmation. Ensure the Trainees observe their hits (bins for KD or the computer screen for AFF/LOMAH). However, if they do not hit the target, consider remedial training or as a last resort (i.e., wind is above 5mph), use an adjusted aiming point.

Check on Learning:

Conduct a check on learning by asking questions, soliciting answers from Trainees and correcting misunderstandings.

Review Summary:

**NOTE: Repeat the terminal learning objective of the lesson and summarize the learning step activity.**

**NOTE: Determine if the Trainees have learned the material presented by soliciting questions and explanations.**

**NOTE: Reiterate the Performance Enhancement Component(s) that can be utilized to accomplish the intended learning outcome(s).**

ELO A - LSA 3. Learning Step / Activity ELO A - LSA 3. Target Feedback

Method of Instruction: Discussion (Small or Large Group)

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (3:50)(Drill Sergeants)

Time of Instruction: 10 mins

Media Type: Actual Equipment  
 Other Media: Unassigned  
 Security Classification: This course/lesson will present information that has a Security Classification of: U - Unclassified.

Provide computer generated feedback (if conducting training on a LOMAH Range) and identify Trainees that require retraining. Utilize the target boards with Spotters 1 inch (100m) and 3 inch (300m) and spindles to spot the impact of the rounds. When exposing the target boards, ensure you provide enough time for the firers to identify where their rounds impacted (30 seconds of exposure). Recommend utilizing E-1 or D-1 type targets for 100m, 200m, and 300m on a KD range.

Check on Learning: Conduct a check on learning by asking questions, soliciting answers from Trainees and correcting misunderstandings.

Review Summary: **NOTE: Reiterate the Performance Enhancement Component(s) that can be utilized to accomplish the intended learning outcome(s).**  
**NOTE: Repeat the terminal learning objective of the lesson and summarize the learning step activity.**  
**NOTE: Determine if the Trainees have learned the material presented by soliciting student questions and explanations. Ask the Trainees questions and correct misunderstandings.**

**CHECK ON LEARNING (ELO A):** Conduct a check on learning by asking questions, soliciting answers from Trainees and correcting misunderstandings.

**REVIEW SUMMARY(ELO A):** Repeat the terminal learning objective of the lesson and summarize the learning step activity.

**B. ENABLING LEARNING OBJECTIVE**

<b>ACTION:</b>	Conduct Zero Refinement exercise at 200m with an M4 Series Carbine with your assigned combat optic.
<b>CONDITIONS:</b>	On known distance range or AFF (LOMAH), given an M4 Carbine, assigned combat optic, sandbags for support, engage targets at 200m from the Prone Supported position while wearing the prescribed combat uniform.
<b>STANDARDS:</b>	Refine Zero on a M4 Series Carbine by engaging the 200m target (4 sets of 5 rounds) and obtaining 8 of 10 rounds in a 8 inch circle from a Prone Supported firing position using your assigned combat optic.
<b>LEARNING DOMAIN - LEVEL:</b>	Psychomotor - Precision
<b>No JPME LEARNING AREAS SUPPORTED:</b>	None

ELO B - LSA 1. Learning Step / Activity ELO B - LSA 1. Conduct Zero Refinement exercise at 200 meters.

Method of Instruction: Practical Exercise (Hands-On/Written)  
 Mode of Delivery: Resident Instruction  
 Instr Type (I:S Ratio): Military - NON-ICH (3:50)(Drill Sergeants)  
 Time of Instruction: 2 hrs 40 mins  
 Media Type: Actual Equipment  
 Other Media: Unassigned  
 Security Classification: This course/lesson will present information that has a Security

**INSTRUCTOR NOTE:** Ensure the Trainees fire 4 of 5 round shot groups. Do not use an adjusted aiming point. Make any sight changes only after confirmation. Ensure the Soldiers observe their hits (binos for KD or the computer screen for AFF/LOMAH). However, if they do not hit the target, consider remedial training or as a last resort (i.e., wind is above 5mph), use an adjusted aiming point.

**INSTRUCTOR NOTE:** The firing line ratio should be 1 Drill Sergeant per 3 Soldiers.

**INSTRUCTOR NOTE:** The instructor must determine the crosswind speed on the range. If the crosswind exceeds five miles per hour, KD zeroing should not be attempted (TC 3-22.9).

**INSTRUCTOR NOTE:** Have both the firer and coach secure 4 magazines with 5 rounds per magazine and move to the firing line. You will engage targets at three different ranges on this KD range (or AFF/LOMAH) the 100m, 200m, and 300m ranges. You will now refine your zero at 200 meters. If you believe you need to make sight adjustments then you must first get confirmation from your Drill Sergeant. **DO NOT ADJUST FOR WIND.** With a 300m zero the impact of the rounds should be 3 to 5 inches high if aiming center mass.

Check on Learning: Conduct a check on learning by asking questions, soliciting answers from Trainees and correcting misunderstandings.

Review Summary: **NOTE: Reiterate the Performance Enhancement Component(s) that can be utilized to accomplish the intended learning outcome(s).**  
**NOTE: Repeat the terminal learning objective of the lesson and summarize the learning step activity.**  
**NOTE: Determine if the Trainees have learned the material presented by soliciting student questions and explanations.**

ELO B - LSA 2. Learning Step / Activity ELO B - LSA 2. Target Feedback.

Method of Instruction: Discussion (Small or Large Group)

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (3:50)(Drill Sergeants)

Time of Instruction: 10 mins

Media Type: Actual Equipment

Other Media: Unassigned

Security Classification: This course/lesson will present information that has a Security Classification of: CUI – Controlled Unclassified Information.

Provide computer generated feedback (if conducting training on a LOMAH Range) and identify Trainees that require retraining. Utilize the target boards with Spotters 1 inch (100 m) and 3 inch (300m) and spindles to spot the impact of the rounds. When exposing the target boards, ensure you provide enough time for the firers to identify where their rounds impacted (30 seconds of exposure). Recommend utilizing E-1 or D-1 type targets for 100m, 200m, and 300m on a KD range.

Check on Learning: Perform a Check on Learning by asking questions pertaining to the training being conducted:

1. What would you do different if allowed to repeat the exercise?
2. What is a stable position?
3. How does breathing affect your aim?

Review Summary: **NOTE: Reiterate the Performance Enhancement Component(s) that can be utilized to accomplish the intended learning outcome(s).**

**NOTE: Repeat the terminal learning objective of the lesson and summarize the learning step activity.**

**NOTE: Determine if the Trainees have learned the material presented by soliciting questions and explanations.**

**CHECK ON LEARNING (ELO B):**

Perform a Check on Learning by asking questions pertaining to the training being conducted:

1. What would you do different if allowed to repeat the exercise?
2. What is a stable position?
3. How does breathing affect your aim?

**REVIEW SUMMARY(ELO B):**

**NOTE: Reiterate the Performance Enhancement Component(s) that can be utilized to accomplish the intended learning outcome(s).**

**NOTE: Repeat the terminal learning objective of the lesson and summarize the learning step activity.**

**NOTE: Determine if the Trainees have learned the material presented by soliciting questions and explanations.**

**C. ENABLING LEARNING OBJECTIVE**

<b>ACTION:</b>	Confirm Zero at 300m with an M4 Series Carbine with your assigned combat optic.
<b>CONDITIONS:</b>	On known distance range or AFF (LOMAH), given an M4 Carbine, assigned combat optic, sandbags for support, engage targets at 300m from the Prone Supported position while wearing the prescribed combat uniform. (Point of Aim and Point of Impact should be the same, do not adjust for the wind).
<b>STANDARDS:</b>	Confirm Zero on a M4 Series Carbine by firing 10 rounds at 300 m (2 sets of 5 rounds) and obtaining 8 of 10 rounds in a 12 inch circle (6 inch shot group) from a Prone Supported firing position using your assigned combat optic.
<b>LEARNING DOMAIN - LEVEL:</b>	Psychomotor - Precision
<b>No JPME LEARNING AREAS SUPPORTED:</b>	None

ELO C - LSA 1. Learning Step / Activity ELO C - LSA 1. Confirm Zero at 300 meters with your assigned combat optic.

Method of Instruction: Practical Exercise (Hands-On/Written)

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (3:50)(Drill Sergeants)

Time of Instruction: 1 hr 35 mins

Media Type: Actual Equipment / Equipment Based Instruction / Oral Presentation / Practical Exercise / Situational Based Instruction

Other Media: Unassigned

Security Classification: This course/lesson will present information that has a Security Classification of: U - Unclassified.

**INSTRUCTOR NOTE:** The firing line ratio should be 1 Drill Sergeant per 3 Trainees.

**INSTRUCTOR NOTE:** The Instructor must determine the crosswind speed on the range. If the crosswind exceeds 5 miles per hour, KD zeroing should not be attempted (TC3-22.9).

**INSTRUCTOR NOTE:** Have both the firer and coach secure 2 magazines with 5 rounds per magazine and move to the firing line. You will fire at targets at three different ranges on this KD range (or AFF/LOMAH) –

the 100m, 200m, and 300m ranges. You will now Confirm Zero at 300 meters. If you believe you need to make sight adjustments, you must first receive confirmation from your Drill Sergeant.

**INSTRUCTOR NOTE:** Ensure the Trainees fire two 5-round shot groups; do not use an adjusted aiming point, and only make sight changes after confirmation. Ensure the Trainees observe their hits (binos for KD or the computer screen for AFF/LOMAH). However, if they do not hit the target consider remedial training or as a last resort (i.e., wind is above 5mph), use an adjusted aiming point.

Check on Learning: Conduct a check on learning by asking questions, soliciting answers from Trainees and correcting misunderstandings.

Review Summary: **NOTE: Repeat the terminal learning objective of the lesson and summarize the learning step activity.**  
**NOTE: Determine if the Trainees have learned the material presented by soliciting Trainees questions and explanations.**  
**NOTE: Reiterate the Performance Enhancement Component(s) that can be utilized to accomplish the intended learning outcome(s).**

ELO C - LSA 2. Learning Step / Activity ELO C - LSA 2. Target Feedback

Method of Instruction: Discussion (Small or Large Group)  
Mode of Delivery: Resident Instruction  
Instr Type (I:S Ratio): Military - NON-ICH (3:50)(Drill Sergeants)  
Time of Instruction: 10 mins  
Media Type: Actual Equipment  
Other Media: Unassigned  
Security Classification: This course/lesson will present information that has a Security Classification of: U - Unclassified.

Provide computer generated feedback (if conducting training on a LOMAH Range) and identify Trainees that require retraining. Utilize the target boards with spotters 1 inch (100m) and 3 inch (300m) and spindles to spot the impact of the rounds. When exposing the target boards, ensure you provide enough time for the firers to identify where their rounds impacted (30 seconds of exposure). Recommend utilizing E-1 or D-1 type targets for 100m, 200m, and 300m on a KD range.

Check on Learning: Perform a Check on Learning by asking questions pertaining to the training being conducted:

1. What would you do different if allowed to repeat the exercise?
2. What is a stable position?
3. How does breathing affect your aim?

Review Summary: **NOTE: Reiterate the Performance Enhancement Component(s) that can be utilized to accomplish the intended learning outcome(s).**  
**NOTE: Repeat the terminal learning objective of the lesson and summarize the learning step activity.**  
**NOTE: Determine if the students have learned the material presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.**

**CHECK ON LEARNING (ELO C):** Conduct a check on learning by asking questions, soliciting answers from Trainees and



correcting misunderstandings.

**REVIEW SUMMARY(ELO C):**

**NOTE: Repeat the terminal learning objective of the lesson and summarize the learning step activity.**

**NOTE: Determine if the Trainees have learned the material presented by soliciting questions and explanations.**

**NOTE: Reiterate the Performance Enhancement Component(s) that can be utilized to accomplish the intended learning outcome(s).**

## SECTION IV. SUMMARY

Method of Instruction:	Reflective Discussion
Mode of Delivery:	Resident Instruction
Instr Type(I:S Ratio):	Military - NON-ICH (1:50) (Drill Sergeant)
Time of Instruction:	5 mins

### Check on Learning

Conduct a check on learning by asking questions, soliciting answers from Students and correcting misunderstandings.

### Review/ Summary

**NOTE: Repeat the terminal learning objective of the lesson and summarize the learning step activity.**

**NOTE: Determine if the Trainees have learned the material presented by soliciting questions and explanations.**

**NOTE: Reiterate the Performance Enhancement Component(s) that can be utilized to accomplish the intended learning outcome(s).**

## SECTION V. STUDENT EVALUATION

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### Testing Requirements

**NOTE:** Describe how the Trainee must demonstrate accomplishment of the TLO. Refer student to the Individual Student Assessment Plan (ISAP).

### Feedback Requirements

**NOTE:** The Trainee will receive timely feedback from the Instructors during all practical exercises, hands-on performance evaluations through mentoring and reflective discussions. The Trainee will be counseled (positive and/or negative) based on their performance on evaluations and classroom participation. Score the Trainee in accordance with the ISAP. If the Trainee fails any step, show or tell him what was done wrong and show them how to do it correctly then provide an opportunity for supervised practices to ensure understanding and application. Document feedback for training developer(s), especially pertinent information that can improve training.

**Appendix A - Viewgraph Masters**

**Confirm CCO Zero (BCT RM Pd 10)  
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<b>Sequence</b>	<b>Media Name</b>	<b>Media Type</b>
None		

## Appendix B - Assessment Statement and Assessment Plan

**Assessment Statement: None.**

**Assessment Plan: None.**

**Appendix C - Practical Exercises and Solutions**

**PRACTICAL EXERCISE(S)/SOLUTION(S) FOR LESSON 071-BT071050 Version 5.02 ©**

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**Appendix D - Student Handouts**

**Confirm CCO Zero (BCT RM Pd 10)  
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<b>Sequence</b>	<b>Media Name</b>	<b>Media Type</b>
None		