

CRM LESSON PLAN REPORT

INTRODUCTION TO RIFLE MARKSMANSHIP (BCT RM PD 1)
071-BT071041 / 5.03 ©

Approved
19 Jul 2021

Effective Date: 19 Jul 2021

SCOPE:

This lesson plan reinforces weapons immersion and the four rules of weapons safety by providing foundational knowledge based on the characteristics and capabilities of the M4 series carbine. This marksmanship information will be reinforced throughout the BCT Marksmanship strategy for each course of fire. This lesson plan also provides the first opportunity to conduct Shooter analysis and identify areas that can be improved upon in the application of proper weapons handling. Identifying and making corrections in all five required firing positions (Standing unsupported, prone unsupported, prone supported, kneeling supported, and standing supported) will be significant throughout all training Rifle Marksmanship (RM) periods and qualification. Instructors will provide demonstrations throughout this class to ensure clarity. Practical exercises are encouraged throughout marksmanship training. To maximize effectiveness and reduce time-consuming corrections during future training, Trainees should be introduced to weapons immersion (weapons safety, disassembly, assembly, loading, unloading, function checks, carry and firing positions, and peer coaching) before conducting RM periods (TR 350-6).

Distribution Restriction: Distribution authorized to U.S. Government agencies and their contractors only TBD. This determination was made on TBD. Insert MCoE G2

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Foreign Disclosure: FD2 - This training product has been reviewed by the training developers in coordination with the MCoE G2 foreign disclosure officer. This training product can be used to instruct international military students when the country meets specific criteria. Specify requirement(s) that each country must meet (select all that are appropriate): 1) Must purchase equipment through FMS TBD; 2) Must be a member of a specific group or coalition TBD; 3) Must have an accepted clearance (must be authorized under an identified general security agreement with the US); 4) May not attend FD3 modules TBD; 5) Other TBD.

SECTION I. ADMINISTRATIVE DATA

All Course Masters/POIs Including This Lesson

Courses				
<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

POIs				
<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>
Individual		
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-COM-0027 (*)	Unload an M16-Series Rifle/M4-Series Carbine	Superseded
071-705-0016 (*)	Boresight a Sight System on an M16 Series Rifle or M4 Series Carbine	Approved
071-705-0011 (*)	Mount the M68 Close Combat Optic (CCO) on a M16 Series Rifle or M4 Series Carbine	Approved
071-COM-0028 (*)	Load an M16-Series Rifle/M4-Series Carbine	Approved

Reinforced Task(s)

<u>Task Number</u>	<u>Task Title</u>	<u>Status</u>
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Knowledge

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

Skill

<u>Skill Id</u>	<u>Title</u>	<u>Taught</u>	<u>Required</u>
071-WPN-0008	Correct Weapons Malfunctions	Yes	No
071-WPN-0007	Detect Weapon Malfunctions	Yes	No
071-WPN-0026	Assume Firing Positions	Yes	No
071-WPN-0017	Disassemble Magazines	Yes	No

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	15 mins	Lecture
Yes	0 hrs	35 mins	Drill and Practice
Yes	1 hr	0 mins	Demonstration
Yes	5 hrs	15 mins	Practical Exercise (Hands-On/Written)
Yes	0 hrs	35 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

0 hrs 15 mins Classroom Breakdown
 0 hrs 15 mins Classroom Setup

Total Hours (60 min): 0 hrs 30 mins

Test Lesson(s)

<u>Hours</u>	<u>Lesson Number Version</u>	<u>Lesson Title</u>
None		

Prerequisite Lesson(s)

<u>Hours</u>	<u>Lesson Number Version</u>	<u>Lesson Title</u>
None		

Training Material Classification

Security Level: This course/lesson will present information that has a Security Classification of: FOUO – For Official Use Only.

Foreign Disclosure Restrictions

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References

<u>Number</u>	<u>Title</u>	<u>Date</u>
AR 385-10	The Army Safety Program	24 Feb 2017
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 385-30	RISK MANAGEMENT	02 Dec 2014
STP 21-1-SMCT	SOLDIER'S MANUAL OF COMMON TASKS, WARRIOR SKILLS, LEVEL 1	07 Nov 2019
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

Student Study Assignment

Suggested reading:
 TRADOC PAM 600-4, *IET Soldiers Handbook*

Instructor Requirements

All Instructors must be:
 Knowledgeable on TC 3-22.9, Rifle and Carbine and TC 3-20.40, Training and Qualification - Individual Weapons.

Support Personnel Requirements

None

Additional Support Personnel Requirements

<u>Name</u>	<u>Student Ratio</u>	<u>Qty</u>	<u>Man Hours</u>
None			

**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>
* 07-26 - M15 Sighting Device Remarks:	1:2				No
* DVC-T07-26 - M15A1 AIMING CARD (Local TADSS – Not in TSMATS/PAM 25-30) Remarks:	1:50		0	0	No
* GTA 07-01-040 - M-4 Carbine, Field Stripped Remarks:	1:1				No
* GTA 08-12-001 - Manual of Applied Performance Skills (MAPS) Remarks:	0:0				No
* T 07-086 - Target Box Paddle Remarks:	1:10				No
* T 07-087 - Riddle Sighting Device Remarks:	1:100		0	0	No
* T 07-103 - Dime Washer Set Remarks:	1:4				No
* T 07-105 - Rifle Rest Target Box Remarks:	1:10				No
1005-01-361-8208 - Firing Attachment, Blank Ammunition Remarks:	1:1	0:0	No	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:	1:1	0:0	No	2	No
1240-01-411-1265 - Sight, Reflex Collimator: XM68 Remarks:	1:1	0:0	No	0	No
1550-01-538-9256 - Small Unmanned Aircraft System (SUAS): Raven B (MIP) Remarks:	0:0	0:0	No	0	No
4110-01-485-3626 - Chest, Ice Storage, White, 48 Quart Capacity 2S Remarks:	0:0	0:0	Yes	4	No
5860-01-471-2091 - Borelight System, Laser: AN/PEM-1 Remarks:	1:10	0:0	No	0	No
6135-00-643-1309 - BATTERY, NONRECHARGEABLE Remarks:	0:0	0:0	Yes	16	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
6530-01-380-7309 - Litter, Folding, Rigid Aluminum Pole, Plastic Nylon Duck Cover, 91.60 Inch Overall Length 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
6665-01-381-3023 - Wet Bulb-Globe Temperature Kit Remarks:	0:0	0:0	Yes	1	No

6920-01-167-1398 - Target, Silhouette: Target, Alternate Course "C" Record Fire Qual., M16A1 Series Remarks:	0:0	0:0	Yes	2	No
6920-01-395-2949 - Target, Silhouette: M16A2/M4 Zero Remarks:	0:0	0:0	Yes	2	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
9150-01-053-6688 - Cleaner, Lubricant and Preservative, 1 Gallon Bottle Remarks:	1:50	0:0	No	0	No

(Note: Asterisk before ID indicates a TADSS.)

Materials Required

Instructor Materials:

RM Slides and Lesson Plan

Drill Sergeant will use the Center for Army Lessons Learned (CALL) website at <http://call.army.mil/>

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>
17136-1000 Automation-Aided Instructional Building, 1000 Square Foot Remarks: Table space per student for weapon disassembly/assembly.		1:200	0	0

Ammunition Requirements

<u>DODIC - Name</u>	<u>Exp</u>	<u>Student Ratio</u>	<u>Instruct Ratio</u>	<u>Spt Qty</u>
AB46 - Dummy Cartridge, 5.56 Millimeter Remarks:	N	3:1	0:0	

Instructional Guidance/Conduct of Lesson

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

The Instructor must be familiar with the entire RM strategy and the importance of including weapons immersion as soon as possible.

Purpose of RM 1 - Develop an understanding of the basic characteristics and core individual tasks for the M4 Carbine.

The intent is to begin teaching the Trainees about his/her weapon upon issuance. Safety is a priority.

The PMI classes can be taught simultaneously. The class can be broken down into small groups (led by a DS) for hands-on-practice.

Conduct training using the crawl, walk, run concept to ensure information is understood and implemented to standard.

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

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

Motivator

The best Soldiers and the best units place a heavy emphasis on individual, crew, and unit marksmanship. Over the years, the marksmanship ability of an individual has been a predictor of his/her overall worth as a Soldier in combat. Additionally, the collective marksmanship ability of Soldiers has been an accurate predictor of the overall worth of an army. Your ability to effectively engage and destroy the enemy is critical to both the Army's mission and to your own protection.

The battlefield is forever changing. Soldiers must be able to perform under any condition around the world. An understanding of what to expect based on the Operational Environment (OE) better prepares you as a Soldier to meet the challenges faced during time of war.

Primary trainers will use his/her experience, weapons immersion training, and various scenarios to emulate the Operational Environment (OE) in locations relevant to current military operations.

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:	Perform Introductory Rifle Marksmanship Training using the M4 Carbine
Conditions:	In a classroom, provided previous weapons immersion training, a M4 Carbine; one 30-round magazine; three 5.56mm dummy rounds; disassembly mat (GTA 07-01-039 or GTA 07-01-045); a cleaning kit with a minimum of the following cleaning materials: swabs, pipe cleaner; and cleaner, lubricant and preservative (CLP); and wearing the prescribed uniform.
Standards:	<ul style="list-style-type: none"> -Comprehend weapon handling/safety -Identify the characteristics of the M4 Carbine and ammunition -Identify the elements of the shot process -Load and unload an M4 Carbine -Perform immediate and remedial action drills -Comprehend basic ballistics -Boresight and zero the M4 and Optics -Maintain the M4 Carbine and magazine -Conduct PMCS on the M4 Carbine
Learning Domain - Level:	Psychomotor - Imitation
No JPME Learning Areas Supported:	None

Safety Requirements

Safety is of the utmost importance in any training 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 during the conduct of training. Introducing Trainees to weapons immersion at the earliest point possible will

mitigate many safety issues in marksmanship training.

Safety is everyone's responsibility to recognize, mitigate, and report hazardous materials.

INSTRUCTOR NOTE: The Instructor will brief the unit/facility for classroom contingencies (i.e., what doors will be used to exit the classroom, rally points, severe weather, etc.).

Risk Assessment Level

Low - Risk Assessment to be produced locally IAW ATP 5-19, 04 APR 2014.

Assessment: NONE

Controls: NONE

Leader Actions: NONE

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 TC 3-34.5, Appendix K. The checklist should supplement local and state environmental regulations applicable to your area.

Instructional Lead-in

During this lesson you will receive an overview of the US Army's Rifle Marksmanship (RM) training program and the fundamental tasks to control and maintain your weapon that enhances your previous weapons immersion training. Safety is critical. Identify and report any potential safety concerns immediately.

SECTION III. PRESENTATION

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

A. ENABLING LEARNING OBJECTIVE

ACTION:	Perform Safe Weapons Handling.
CONDITIONS:	In a classroom, given an individual weapon and instruction on weapon safety.
STANDARDS:	Demonstrate the four rules of weapon safety by: -Treating every weapon as if it were loaded. -Never pointing the weapon at anything you do not intend to shoot. -Keeping your finger off the trigger until ready to fire. -Ensuring positive identification of the target and its surroundings.
LEARNING DOMAIN - LEVEL:	Cognitive - Understanding
No JPME LEARNING AREAS SUPPORTED:	None

ELO A - LSA 1. Learning Step / Activity ELO A - LSA 1. Four Rules of Weapon Safety

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 5 mins

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

Other Media: Unassigned

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

By following these rules, you will not be responsible for negligent activity.

Proper weapon handling procedures apply at all times. The four rules of weapon safety are:

- Treat every weapon as if it were loaded.
- Never point the weapon at anything you do not intend to shoot.
- Keep your finger off the trigger until ready to fire.
- Ensure positive identification of the target and its surroundings.

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. Weapons Handling

Method of Instruction: Discussion (Small or Large Group)

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 5 mins

Media Type: Actual Equipment / Equipment Based Instruction / Oral Presentation / Practical Exercise / PowerPoint Presentation / 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 Practical Exercise begins with Weapons Immersion and continues throughout Basic Combat Training.

Weapon Readiness Status is described by one of four conditions. The steps in the loading and unloading process revolves through four of these specific conditions of readiness.

- Green

- Selector switch is set to SAFE

- Magazine removed from weapon

- Bolt forward, ejection port cover closed

- Amber

- Selector switch is set to SAFE
- Magazine with ammunition inserted in weapon
- Bolt forward, no round in chamber, ejection port cover closed

- Red

- Selector switch is set to SAFE
- Magazine locked into the magazine well
- Bolt is FORWARD and locked with a round in the chamber
- Ejection port cover closed

- Black

- Magazine locked into the magazine well
- Bolt is FORWARD and locked with a round in the chamber
- Ejector port cover may be closed
- Firer is authorized to enter the SHOT PROCESS
- Selector switch is set to FIRE

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 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 3. Learning Step / Activity ELO A - LSA 3. Prevention of Negligent Discharge

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 5 mins

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

Other Media: Unassigned

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

Negligent discharge is the unintentional firing of a weapon.

- Negligent discharges are **UNACCEPTABLE!**
- Negligent discharges are a result of improper safety procedures.

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 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).

CHECK ON LEARNING (ELO A):

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(ELO A):

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).

B. ENABLING LEARNING OBJECTIVE

ACTION:	Identify the Characteristics of the M4 Carbine and Ammunition
CONDITIONS:	In a classroom, given an M4 Carbine and presentation.
STANDARDS:	Identify the characteristics of the M4-Carbine by: -Identifying the components of the M4 Carbine. -Identifying 5.56 ammunition. -Identifying the 8 cycles of function.
LEARNING DOMAIN - LEVEL:	None assigned
No JPME LEARNING AREAS SUPPORTED:	None

ELO B - LSA 1. Learning Step / Activity ELO B - LSA 1. Characteristics of M4 Carbine

Method of Instruction: Practical Exercise (Hands-On/Written)
 Mode of Delivery: Resident Instruction
 Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)
 Time of Instruction: 10 mins
 Media Type: Actual Equipment / Conference/Demonstration / Equipment Based Instruction / Practical Exercise / PowerPoint Presentation
 Other Media: Unassigned
 Security Classification: This course/lesson will present information that has a Security Classification of: U - Unclassified.

All M4-series weapons are magazine-fed, gas-operated, air-cooled, shoulder-fired 5.56-millimeter weapons. This section describes the general characteristics and components of M4-series weapons.

Exterior Parts Chart
 Interior Parts Chart

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 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 B - LSA 2. Learning Step / Activity ELO B - LSA 2. Identify 5.56 ammunition

Method of Instruction: Practical Exercise (Hands-On/Written)
 Mode of Delivery: Resident Instruction
 Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)
 Time of Instruction: 10 mins
 Media Type: Actual Equipment / Equipment Based Instruction / Oral Presentation / Practical Exercise / PowerPoint Presentation / Situational Based Instruction
 Other Media: Unassigned
 Security Classification: This course/lesson will present information that has a Security

There are eight (8) specific rounds of 5.56mm ammunition that are in the inventory today. They are:

Dummy, AB 46. (Used in all rifles.) The AB 46 dummy cartridge is used during dry firing and other training. This cartridge can be identified by the six grooves along the sides of the case beginning about 1/2 inch from its tip. It contains no propellant or primer. The primer well is open to prevent damage to the firing pin.

Blank, M200. (Used in all rifles.) The M200 blank cartridge has no projectile. The case mouth is closed with a seven-petal rosette crimp and shows a violet tip. It is used to simulate live-fire during training or ceremonies.

WARNING: Do not use this cartridge within 20 feet of personnel, because fragments from a closure wad or particles of unburned propellant can cause injury or death.

Short-Range Training Ammunition (SRTA), M862. (Used in all rifles.) It is a blue plastic bullet. The M862 SRTA is designed exclusively for training and it must be used with the M2 training bolt. It can be used in lieu of service ammunition on indoor ranges and by units that have a limited range fan that does not allow the firing of service ammunition.

(1) Although SRTA closely replicates the trajectory and characteristics of service ammunition out to 25 meters, it should not be used to set battle sight zero of weapons to fire service ammunition. The settings that are placed on the sights for SRTA could be different for service ammunition.

(2) If adequate range facilities are not available for sustainment training, SRTA can be used for any firing exercise of 25 meters or less. This includes the 25-meter scaled silhouette, 25-meter alternate qualification course, and quick-fire training. SRTA can also be used for Urban Operations training.

WARNING: This cartridge must be used with the M2 training bolt identifiable by its blue tip. This ammunition will cause injury, death or property damage.

Ball, M193. (Used in the M16A1 rifle) The M193 cartridge is a center-fire cartridge with a 55-grain, gilded metal-jacketed, lead alloy core bullet with a plain tip. The M193 round is the standard cartridge for field use with the M16A1 rifle and has no identifying marks. It can be used by the M16A2/3/4 and M4-series weapons.

Ball, M855. (Used in the M16A2/3/4 and M4-series weapons.) The M855 cartridge has a 62-grain, gilded metal-jacketed, lead alloy core bullet with a steel penetrator. The primer and case are waterproof. This round is also linked and used in the M249. It has a green tip. This ammunition should not be used in the M16A1 except under emergency conditions, and only at targets less than 90 meters in distance. (The twist of the M16A1 rifling is not sufficient to stabilize the heavier projectile of the round).

Tracer, M196. (Used in the M16A1 rifle) The M196 cartridge has a red or orange painted tip. Its main uses are for observation of fire, incendiary effect, and signaling. Trainee's should avoid long-term use of 100 percent tracer rounds, which could cause deposits of incendiary material, or chemical compounds that could damage the barrel. Therefore, when tracer rounds are fired, they are mixed with ball ammunition in a ratio of no greater than one-to-one with a preferred ratio of three or four ball rounds to one tracer round. It can be used by the M16A2/3/4 and M4-series weapons.

WARNING: Avoid long-term use of only tracer rounds. Firing only tracers rounds may cause deposits of incendiary material or chemical compounds to build up within the barrel and eventually damage the barrel.

Tracer, M856. (Used in the M16A2/3/4 and M4-series weapons.) The M856 tracer cartridge has characteristics similar to the M196 tracer with a slightly longer tracer burnout distance. This cartridge has a 63.7-grain bullet. The M856 does not have a steel penetrator. It has a red tip (orange when linked 4 to 1 for the M249). This ammunition should not be used in the M16A1 except under emergency conditions, and only at targets less than 90 meters in distance. (The twist of the M16A1 rifling is not sufficient to stabilize the projectile of the heavier ammunition). Its main uses are for visible observation of the bullets in-flight path or trajectory to the point of impact (observation of fire), incendiary effect, and signaling.

Armor Piercing (AP), M995. (Used in the M16A2/3/4 and M4-series weapons.) The M995 cartridge, armor-piercing (AP) has a black bullet tip. The projectile consists of a dense metal penetrator (tungsten carbide), which is enclosed by a standard gilding metal jacket. An aluminum cup sits at the rear of the projectile for the purpose of properly locating the penetrator within the projectile. The cartridge utilizes a conventional brass case and double base propellant. It is intended for use against light armored targets. This round is also linked and used in the M249 SAW.

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 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 B - LSA 3. Learning Step / Activity ELO B - LSA 3. Identifying the 8 cycles of function

Method of Instruction: Discussion (Small or Large Group)

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH, DS (2:50)

Time of Instruction: 10 mins

Media Type: Conference/Demonstration / PowerPoint Presentation

Other Media: Unassigned

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

Note: Marked as (*) is derived from the parent learning object

- Feeding
- Chambering
- Locking
- Firing
- Unlocking
- Extracting

-Ejecting

-Cocking

Check on Learning:

Ask questions to ensure students comprehend how the weapon operates.

Review Summary:

Review/Summarize the ELO.

CHECK ON LEARNING (ELO B):

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

REVIEW SUMMARY(ELO B):

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).

C. ENABLING LEARNING OBJECTIVE

ACTION:	Identify the Elements of the Shot Process
CONDITIONS:	Given an M4-Carbine in a classroom environment.
STANDARDS:	The trainee will identify the Functional Elements of the Shot Process by: -Demonstrating Proper Workspace Management. -Identifying the 4 functions of Stability. -Identifying the Soldier Actions of Aim. -Identifying the functions of Control. -Identifying the actions of Movement during the engagement process. -Identifying the three primary firing positions.
LEARNING DOMAIN - LEVEL:	None assigned
No JPME LEARNING AREAS SUPPORTED:	None

ELO C - LSA 1. Learning Step / Activity ELO C - LSA 1. Workspace Management

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 15 mins

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

Other Media: Unassigned

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

Demonstrate proper Workspace Management.

Weapon is 12-18 inches from the eyes. This allows you to maintain situational awareness when loading,

unloading or correcting malfunctions with the weapon system.

Provide the Trainees an opportunity to practice Workspace Management.

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 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 C - LSA 2. Learning Step / Activity ELO C - LSA 2. Discuss the Functional Elements of the Shot Process

Method of Instruction: Demonstration

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)* (DS)

Time of Instruction: 15 mins

Media Type: Unassigned

Other Media: Unassigned

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

Note: Marked as (*) is derived from the parent learning object

Stability

Aim

Control

Movement

Check on Learning: Ask questions in reference to the Functional Elements of the Shot Process to confirm learning.

Review Summary: Summarize the ELO.

ELO C - LSA 3. Learning Step / Activity ELO C - LSA 3. Firing Positions

Method of Instruction: Demonstration

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)* (DS)

Time of Instruction: 15 mins

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

Other Media: Unassigned

Security Classification: This course/lesson will present information that has a Security Classification of: FOUO – For Official Use Only.

Note: Marked as (*) is derived from the parent learning object

Demonstrate the firing positions using the presentation. Explain how each position will be required during qualification tables.

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 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 C - LSA 4. Learning Step / Activity ELO C - LSA 4. Weapon Ready Positions

Method of Instruction: Demonstration

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)* (DS)

Time of Instruction: 15 mins

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

Other Media: Unassigned

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

Note: Marked as (*) is derived from the parent learning object

The two weapon ready positions are High and Low.

Low Ready Position: The low ready position is used when contact is likely. In the low ready position, the weapon is slung, the buttstock is in the Trainee's shoulder, the muzzle is angled down at a 30- to 45-degree angle and oriented towards the Trainee's sector of fire. Firing hand position is the same as in the safe hang and the collapsed low ready. From this position, the Trainee is ready to engage threats within a very short amount of time, with minimal movement. The Trainee looks over the top of his optics or sights to maintain situation awareness of his sector. The Trainee's head remains upright.

High Ready Position: The high ready position is used when the Trainee's sector of fire includes areas overhead, or when an elevated muzzle orientation is appropriate for safety. The high ready position is similar to the low ready in that it is used when contact is likely. In the high ready, the weapon is slung, buttstock is under the armpit, the muzzle angled up to at least a 45-degree angle and oriented toward the Trainee's sector of fire—ensuring no other Trainee's are flagged. The firing hand remains in the same position as the low ready. The nonfiring side hand can be free as the weapon is supported by the firing side hand and armpit. This position is not as effective as the low ready for several reasons: it impedes the field of view, flags friendly's above the sector of fire, and typically takes longer to acquire the target.

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 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).

CHECK ON LEARNING (ELO C):

Conduct a check on learning by asking questions, soliciting answers from Students 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 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).

D. ENABLING LEARNING OBJECTIVE

ACTION:	Load an M4 Carbine and magazine.
CONDITIONS:	Given an M4-Carbine, a loaded magazine, three dummy rounds, and a requirement to load the M4 Carbine.
STANDARDS:	Instructors will demonstrate how to correctly load the M4 Carbine by: -Loading a magazine. -Keeping the weapon pointed in a safe direction. -Ensuring the chamber was clear. -Placing the weapon on Safe. -Locking the bolt to the rear. -Inserting the magazine into the magazine well. -Allowing the bolt to go forward chambering a round.
LEARNING DOMAIN - LEVEL:	None assigned
No JPME LEARNING AREAS SUPPORTED:	None

ELO D - LSA 1. Learning Step / Activity ELO D - LSA 1. Overview and Demonstration

Method of Instruction: Demonstration

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 5 mins

Media Type: Actual Equipment / Conference/Demonstration / 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.

Demonstrate loading and unloading the M4 rifle then talk Trainee's through loading step-by-step.

The magazine may be inserted with the bolt open or closed. To reduce the possibility of a first round stoppage, loading with the bolt open is preferred.

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 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 D - LSA 2. Learning Step / Activity ELO D - LSA 2. Load weapon with bolt open

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 5 mins

Media Type: Actual Equipment / Conference/Demonstration / 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.

The Instructor will demonstrate how to load the weapon by opening bolt:

- (1) Point the muzzle of the rifle in a safe direction.**
 - (2) Pull the charging handle to the rear and lock the bolt to the rear.**
 - (3) Place the selector lever on SAFE.**
 - (4) With the bolt in the open position, look into chamber to be sure it is clear.**
 - (5) Insert a loaded magazine into the magazine housing and push upward until the magazine catch engages and holds the magazine in place. Do not slap on the bottom of the magazine during initial loading or rounds may be ejected from the magazine prematurely.**
 - (6) Pull down firmly on the magazine to ensure the magazine is locked in place (and fully seated).**
 - (7) Chamber a round by depressing upper portion of bolt catch allowing the bolt to go forward.**
 - (8) Tap the forward assist assembly to ensure that the bolt is fully forward and locked.**
- WARNING: The rifle is now loaded. Ensure it is pointed in a safe direction.**
- (9) If the rifle is not to be fired immediately, ensure the selector lever is on SAFE and close the ejector port cover.**

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 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 D - LSA 3. Learning Step / Activity ELO D - LSA 3. Load weapon with bolt closed

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 5 mins

Media Type: Actual Equipment / Conference/Demonstration / 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.

The Instructor will demonstrate how to load the weapon with the bolt closed.

(1) Point the muzzle of the rifle in a safe direction.

(2) Attempt to place the selector lever on SAFE.

(3) Insert a loaded magazine into the magazine housing and push upward until the magazine catch engages and holds the magazine in place. Do not slap on the bottom of the magazine during initial loading or rounds may be ejected from the magazine prematurely.

(4) Pull down firmly on the magazine to ensure the magazine is locked in place (and fully seated).

(5) Chamber a round by pulling the charging handle to the rear and releasing it. DO NOT ride the charging handle forward. If the charging handle is eased forward from the open position, the bolt may fail to lock.

(6) Tap the forward assist assembly to ensure that the bolt is fully forward and locked.

WARNING: The rifle is now loaded. Ensure it is pointed in a safe direction.

(7) If the rifle is not to be fired immediately, ensure the selector lever is on SAFE and close the ejector port cover.

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 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).

CHECK ON LEARNING (ELO D):

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

REVIEW SUMMARY(ELO D):

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).

E. ENABLING LEARNING OBJECTIVE

ACTION:	Unload an M4-Carbine
CONDITIONS:	Given an M4-Carbine with a magazine, and dummy ammunition.
STANDARDS:	<p>The Instructor will demonstrate how to correctly Unload the M4 Carbine by:</p> <p>Attempting to place the weapon on safe.</p> <p>Removing the source of ammunition, (magazine).</p> <p>Locking the bolt to the rear. (If it is not already place the weapon on safe.)</p> <p>Conducting (three point safety check) inspection ensuring weapon is cleared.</p> <p>Pressing bolt release (allowing the bolt to go forward).</p> <p>Closing ejection port cover.</p>
LEARNING DOMAIN - LEVEL:	None assigned
No JPME LEARNING AREAS SUPPORTED:	None

ELO E - LSA 1. Learning Step / Activity ELO E - LSA 1. Unload an M4-Carbine

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 5 mins

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

Other Media: Unassigned

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

The Instructor will demonstrate how to correctly unload an M4-Carbine by:

Attempt to place the weapon on safe.

Remove the source of ammunition, (magazine).

Lock the bolt to the rear.

If it is not already place the weapon on safe.

Conduct three point safety check ensuring weapon is cleared.

Press bolt release.

Close ejection port cover.

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 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).

CHECK ON LEARNING (ELO E):

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

REVIEW SUMMARY(ELO E):

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).

F. ENABLING LEARNING OBJECTIVE

ACTION:	Correct a Malfunction of an M4-Series Carbine.
CONDITIONS:	Given a M4-Carbine that has a malfunction and has stopped firing.
STANDARDS:	The Instructor will correctly demonstrate how to correct a malfunction with the M4 Series Carbine by: -Properly applying CSPORTS . -Properly performing Remedial Action when Immediate Action fails.
LEARNING DOMAIN - LEVEL:	None assigned
No JPME LEARNING AREAS SUPPORTED:	None

ELO F - LSA 1. Learning Step / Activity ELO F - LSA 1. Perform Immediate Action (C-SPORTS)

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 10 mins

Media Type: Actual Equipment / Conference/Demonstration / 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.

The Instructor will Demonstrate Immediate Action:

Immediate action involves quickly applying a possible correction to reduce a stoppage without performing troubleshooting procedures to determine the actual cause

The key word C-SPORTS will help the firer remember the steps in order during a live-fire exercise. To apply immediate action, (talk Trainee's through immediate action step-by-step.):

- (1) Confirm that the Selector is set to the SEMI, AUTO, or BURST position
- (2) Slap upward on the magazine to ensure it is fully seated, and the magazine follower is not jammed.
- (3) Pull the charging handle fully to the rear.
- (4) Observe for the ejection of a live round or expended cartridge. (If the weapon fails to eject a cartridge, perform remedial action.)
- (5) Release the charging handle (do not ride it forward).
- (6) Tap the forward assist assembly to ensure bolt closure.
- (7) Squeeze the trigger and reengage the target.

We will now practice the task Perform Immediate Action using CSPORTS

INSTRUCTOR NOTE: Direct Trainee's to practice while AIs observe and correct.

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 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 F - LSA 2. Learning Step / Activity ELO F - LSA 2. Perform Remedial Action

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 10 mins

Media Type: Actual Equipment / Conference/Demonstration / 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.

Instructors will demonstrate how to apply Remedial Action

If the weapon does not fire, perform remedial action.

Perform remedial action.

The purpose of remedial action is to correct a stoppage or malfunction as quickly as possible that was not corrected after applying CSPORTS. The most common stoppage or malfunction is ammunition obstructing the chamber which can normally be solved very quickly. If this is not the cause then a more detailed search for the cause is required. Once, the cause of the stoppage or malfunction is identified then take the necessary steps to correct it.

A. Correct an obstructed chamber:

- (1) Pull and lock the charging handle to the rear and place the weapon on SAFE.
- (2) Remove the magazine.
- (3) Visually inspect the chamber for obstructions and remove if found.
 - a. Angle the ejection port downward and shake the weapon to remove single rounds.
 - b. Use a pointed object to lessen jammed rounds, then shake out when loose.
 - c. Use a cleaning rod to push out a round/cartridge case stuck in the chamber.
- (4) Load the weapon and reengage targets.

Note: If your rifle still fails to fire, you may have a mechanical failure.

B. Correct a mechanical malfunction.

- (1) Clear the weapon.
- (2) Disassemble the weapon.
- (3) Inspect for dirty, corroded, missing, or broken parts.
- (4) Clean dirty or corroded parts.
- (5) Replace missing or broken parts.
- (6) Assemble the weapon.
- (7) Perform a function check.
- (8) Load the rifle.
- (9) Engage Target.

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 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).

CHECK ON LEARNING (ELO F):

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

REVIEW SUMMARY(ELO F):

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).

G. ENABLING LEARNING OBJECTIVE

ACTION:	Identify the Ballistics associated with 5.56mm ammunition.
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CONDITIONS:	In a classroom, given TM 9-1005-319-10, TC 3-22.9, TC 3-20.40, and student handouts.
STANDARDS:	The Trainee will identify the ballistics associated with 5.56mm ammunition by: -Defining Ballistics. -Identifying Internal Ballistics -Identifying External Ballistics -Identifying Terminal Ballistics -Identifying the parts of a Trajectory
LEARNING DOMAIN - LEVEL:	None assigned
No JPME LEARNING AREAS SUPPORTED:	None

ELO G - LSA 1. Learning Step / Activity ELO G - LSA 1. Ballistics

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 15 mins

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

Other Media: Unassigned

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

Definition: Ballistics is the Science of the processes that occur from the time a firearm is fired to the time the bullet strikes that target and comes to a complete stop.

There are three types of ballistics:

1. **Internal Ballistics:** Everything that happens to the bullet from the time the primer is struck until it reaches the muzzle of the barrel.
2. **External Ballistics:** Everything that happens to the bullet from the time it exits the muzzle until it reaches the target.
3. **Terminal Ballistics:** Everything that happens to the projectile once it comes in contact with the target and until it comes to a complete stop.

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 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 G - LSA 2. Learning Step / Activity ELO G - LSA 2. Trajectory

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)* (DS)

Time of Instruction: 15 mins

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

Other Media: Unassigned

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

Note: Marked as (*) is derived from the parent learning object

Define the three parts of Trajectory:

Line of Sight (LOS)

Line of Bore (LOB)

Path of Bullet

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 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).

CHECK ON LEARNING (ELO G):

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

REVIEW SUMMARY(ELO G):

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).

H. ENABLING LEARNING OBJECTIVE

ACTION:	Manipulate BUIS to achieve Zero
CONDITIONS:	Given an M4 Carbine with BUIS; instructions on operating procedures for BUIS manipulation.
STANDARDS:	Each Trainee will manipulate an M4 Series Carbine and properly adjust their BUIS by: Identifying all components of the Back Up Iron Sights. Ensuring the BDC is set on the 300 Meter Setting. Identifying the Front Sight Post Elevation increments of 2 (2) Minutes of Angle. Identifying the Windage Adjustments are $\frac{3}{4}$ (.75) Minutes of Angle.
LEARNING DOMAIN - LEVEL:	None assigned

**No JPME
LEARNING AREAS
SUPPORTED:**

None

ELO H - LSA 1. Learning Step / Activity ELO H - LSA 1. Back Up Iron Sights (BUIS)

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 10 mins

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

Other Media: Unassigned

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

Identify the major components of the Back Up Iron Sights.

Define Zeroing.

Identify the Two Methods the Army has developed for Zeroing.

Identify the Zeroing Procedures that will be completed once the Grouping exercise is completed.

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 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 H - LSA 2. Learning Step / Activity ELO H - LSA 2. Minute of Angle (MOA)

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)* (DS)

Time of Instruction: 20 mins

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

Other Media: Unassigned

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

Note: Marked as (*) is derived from the parent learning object

Define Minute of Angle.

Identify **WHY** Minute of Angle is important.

Identify the MOA Adjustments for the Sights and Optics the Trainee will use.

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 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 H - LSA 3. Learning Step / Activity ELO H - LSA 3. Environmental Conditions

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 20 mins

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

Other Media: Unassigned

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

Identify and Define the Wind Values.

-Cover the Wind Formula

-Complete the FULL Value and HALF Value worksheet

-Complete the MOA Worksheet

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 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).

CHECK ON LEARNING (ELO H):

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

REVIEW SUMMARY(ELO H):

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).

I. ENABLING LEARNING OBJECTIVE

ACTION:	Identify the steps to accurately Boresight the M68 CCO
CONDITIONS:	Given an M16-series rifle or M4-series carbine, equipped with an M68 Close Combat Optic (CCO), an AN/PEM-1 laser borelight system, a 10-meter target, a field expedient method of support (sand bags, rucksack, etc.), and an assistant.
STANDARDS:	Identify the steps to accurately boresight the M68 CCO using a 10 meter target.
LEARNING DOMAIN - LEVEL:	None assigned
No JPME LEARNING AREAS SUPPORTED:	None

ELO I - LSA 1. Learning Step / Activity ELO I - LSA 1. Zero the borelight to the M4 Carbine

Method of Instruction: Drill and Practice
Mode of Delivery: Resident Instruction
Instr Type (I:S Ratio): Military - NON-ICH (2:50)* (DS)
Time of Instruction: 5 mins
Media Type: Training Aid / Training Device / Actual Equipment / Conference/Demonstration / Practical Exercise / PowerPoint Presentation
Other Media: Unassigned
Security Classification: This course/lesson will present information that has a Security Classification of: U - Unclassified.
Note: Marked as (*) is derived from the parent learning object

The Instructor will demonstrate how the following:

- a. Ensure the weapon is clear.
- b. Stabilize the weapon on the sandbag without a cant.
The weapon does not have to be perfectly level with the ground when boresighting.
- c. Attach the 5.56-millimeter mandrel to the borelight.
- d. Insert the mandrel into the weapon's muzzle.

Check on Learning: Solicit questions relevant to this ELO to ensure student comprehension.

Review Summary: Summarize this ELO.

ELO I - LSA 2. Learning Step / Activity ELO I - LSA 2. Prepare the Target

Method of Instruction: Drill and Practice
Mode of Delivery: Resident Instruction
Instr Type (I:S Ratio): Military - NON-ICH (2:50)* (DS)
Time of Instruction: 10 mins
Media Type: Training Aid / Training Device / Actual Equipment / Conference/Demonstration / Practical Exercise / PowerPoint Presentation
Other Media: Unassigned
Security Classification: This course/lesson will present information that has a Security Classification of: U - Unclassified.
Note: Marked as (*) is derived from the parent learning object

- a. Secure a target that includes the correct boresight offset.
- b. Measure 10 meters
- c. Turn on the borelight.
- d. Ensure the laser strikes the target.
- e. Place the borelight in the start position by rotating the borelight counter-clockwise (CCW) 180 degrees until the battery compartment is facing upward.
- f. Secure the boresighting target with the laser striking the zeroing mark or draw a zeroing mark (small dot) on the target, where the laser strikes the target.
- g. Determine the boresighting reference point.
 1. Place the borelight in the half turn position by rotating the borelight CCW 180 degrees until the battery compartment is facing down and the adjusters are on the bottom.
 2. Identify the point half way between the start point (battery up) and the half-turn point (battery down) as the reference point.
 3. Determine if the borelight is boresighted (zeroed) to the weapon.

Note: A 1 cm or less circle means the borelight has been boresighted to the weapon.

Check on Learning: Solicit questions relevant to this ELO to ensure student comprehension.

Review Summary: Summarize this learning step activity.

ELO I - LSA 3. Learning Step / Activity ELO I - LSA 3. Boresight the M68 CCO to the M4 Carbine

Method of Instruction: Drill and Practice

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)* (DS)

Time of Instruction: 10 mins

Media Type: Training Aid / Training Device / Actual Equipment / Conference/Demonstration / PowerPoint Presentation

Other Media: Unassigned

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

Note: Marked as (*) is derived from the parent learning object

The Instructor will demonstrate the following:

- a. Rotate switch knob clockwise to desired brightness level.
- b. Aim the red dot in the CCO reticle at the 10-meter boresighting target.
- c. Make adjustments to the windage and elevation of the CCO until the borelight is centered with the circle on the boresighting target.

- d. Turn the borelight off.
- e. Move the weapon off of the boresight point of aim.
- f. Realign the red dot in the CCO on the boresight point of aim.
- g. Turn the borelight back on.
- h. Verify that the borelight laser is in the borelight circle and that CCO red dot is aligned with the boresight point of aim.

Check on Learning: Solicit questions relevant to this ELO to ensure student comprehension.

Review Summary: Summarize this Learning Step Activity.

ELO I - LSA 4. Learning Step / Activity ELO I - LSA 4. Remove the borelight from the weapon

Method of Instruction: Drill and Practice

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)* (DS)

Time of Instruction: 10 mins

Media Type: Training Aid / Training Device / Actual Equipment / Conference/Demonstration / PowerPoint Presentation

Other Media: Unassigned

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

Note: Marked as (*) is derived from the parent learning object

The Instructor will demonstrate the following:

- a. Turn the borelight off.
- b. Carefully remove the borelight and mandrel from the muzzle of the weapon.
- c. Remove the borelight from the mandrel.

Check on Learning: Solicit questions relevant to this ELO to ensure student comprehension.

Review Summary: Summarize this Learning Step Activity to prevent damage to the borelight.

CHECK ON LEARNING (ELO I): Ensure students understand the steps in this ELO. An accurate boresight is the key to precision fires.

REVIEW SUMMARY(ELO I): Summarize the lesson plan.

J. ENABLING LEARNING OBJECTIVE

ACTION:	Maintain a M4 Carbine
CONDITIONS:	In a classroom, given an M4-Carbine, magazine, 5.56mm dummy ammunition, and small arms cleaning materials.
STANDARDS:	Demonstrate the steps of maintaining the M4 Carbine by: 1. Clearing 2. Disassembling

	3. Cleaning 4. Inspecting 5. Lubricating 6. Assembling 7. Performing a Function Check
LEARNING DOMAIN - LEVEL:	None assigned
No JPME LEARNING AREAS SUPPORTED:	None

ELO J - LSA 1. Learning Step / Activity ELO J - LSA 1. Clear the Weapon

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 10 mins

Media Type: Actual Equipment / Conference/Demonstration / Practical Exercise

Other Media: Unassigned

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

The first step in maintaining the weapon is to verify the weapon is unloaded and cleared.

To clear the weapon:

- (a) Point the muzzle in a SAFE DIRECTION. Attempt to place selector lever on SAFE (If weapon is not cocked, lever cannot be placed on SAFE.)
- (b) Remove the magazine by depressing the magazine catch button and pulling the magazine down.
- (c) Lock the bolt open by pulling charging handle fully to the rear while simultaneously pressing the bottom of the bolt catch. Release the bottom of the bolt catch and allow the bolt to move forward until it engages bolt catch. Return the charging handle to the forward locked position. (Ensure the selector is on SAFE.)
- (d) Visually inspect the receiver and chamber to ensure it contains no ammunition.
- (e) With the selector on SAFE, allow the bolt to move forward by pressing the upper portion of the bolt catch.
- (f) Close the ejector port cover.

We will now practice clearing the weapon.

INSTRUCTOR NOTE: Have Drill Sergeants observe and correct as required.

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 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).

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 15 mins

Media Type: Actual Equipment / Conference/Demonstration / Practical Exercise

Other Media: Unassigned

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

This is a talk through of disassembly of the weapon. You will disassemble your weapon but will not practice disassembly. Practice will be conducted after you are taught assembly of the weapon.

Remove the sling: Remove the sling by disconnecting the sling from the sling at the swivels on both ends.

Remove the handguards

WARNING: Avoid bending or denting the gas tube while removing the hand guards.

CAUTION: Do not use a screwdriver or any other tool when removing the hand guards. Doing so may damage the hand guards, slip ring, or both.

On the M4 carbine series, the hand guards are replaced by the M4, adapter rails. The M4 and M5 adapter rails are marker with a T for top and B for bottom.

Handguards should not be removed/replaced when the upper and lower receiver groups are separated because of potential damage to the forward assist assembly. Care must be taken to prevent damage to the gas tube while the hand guards are removed. Remove hand guards (removed only when visual inspection reveals rust, corrosion, or foreign matter around the gas tube and/or barrel of the rifle).

To remove the handguards:

- Place the recoil pad of the stock firmly on the ground or a table with the barrel pointing up.
- Pivot the rifle so that the carrying handle is facing away.
- Place the fingers of one hand in the ventilation holes in top of the handguard near the receiver, and simultaneously place the thumb on the bottom of the handguard.
- Grip the slip ring with the thumb and forefinger of the other hand. While pushing the slip ring down on the side from which the handguard is to be removed, lift up and out on the handguard.
- Once one handguard is removed, the other can be removed by repeating this procedure with the opposite hand.

An alternative method is the buddy assist method of removing the handguards. One Trainee use both hands to lower the slip ring while the other removes the hangaurds.

Separate the Upper and Lower Receiver: Push the takedown pin as far as it will go and pivot the upper receiver from the lower receiver.

Note: The takedown pin does not come completely out of the receiver.

Again, using the nose of a cartridge or similar pointed object, press out (unseat) the receiver pivot pin. Separate the upper and lower receiver groups and place the lower receiver group aside for the time being.

Note: The receiver pivot pin does not come out of the receiver.

Remove the Bolt Carrier Group and Charging Handle

Pick up the upper receiver group. Grasp the charging handle, pressing in on the charging handle latch, and pull to the rear 5 to 7 centimeters. Grasp the bolt carrier and pull it from the receiver. After

the bolt carrier is removed the charging handle will fall free of its groove in the receiver when pulled to the rear. Place the upper receiver on a clean surface.

Disassemble the Bolt Carrier Group

To disassemble the bolt carrier group:

- Press out the firing pin retaining pin by using the nose of a cartridge or similar pointed object.
- Elevate the front of the bolt carrier and allow the firing pin to drop from its well in the bolt.
- Rotate the bolt until the cam pin is clear of the bolt carrier key and remove the cam pin by

rotating it 90 degrees (1/4 turn) and lifting it out of the well in the bolt and bolt carrier.

After the cam pin is removed, the bolt can be removed easily from its recess in the bolt carrier.

To remove the extractor, apply pressure on the extractor body just to the rear of the extractor pin (this compresses the extractor spring and reduces the pressure on the extractor pin).

- With the tip of the firing pin or similar pointed object, push the extractor pin from the bolt body.
- Release the pressure exerted on the extractor body and remove the extractor.

The extractor spring should not be separated from the extractor. The extractor pin should be removed only when necessary for cleaning. If it should become separated and is not damaged, the user may replace it.

When the spring is replaced, ensure that the wide end of the spring is positioned in the recess of the extractor.

Remove the Buffer and Buffer Spring: The final step in disassembly is removal of the buffer assembly and buffer spring.

CAUTION: Inform the students that the buffer and spring are spring loaded and they must be careful when removing the buffer and spring so not to cause injury to their hands.

Using an index finger, push in on the buffer assembly then use the nose of the cartridge or similar pointed object and push down on the buffer retainer.

To remove the buffer assembly, the hammer must be pressed downward past the cocked position. If the buffer spring hangs up on the buffer retainer, wiggle it to eliminate the resistance. Under no circumstances should the action spring be pulled if resistance is encountered.

After the body of the buffer assembly has cleared the hammer, the action spring can be withdrawn from the lower receiver.

Do not disassemble the rifle further.

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 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 J - LSA 3. Learning Step / Activity ELO J - LSA 3. Clean the Weapon

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 15 mins
Media Type: Actual Equipment / Conference/Demonstration / Practical Exercise
Other Media: Unassigned
Security Classification: This course/lesson will present information that has a Security Classification of: U - Unclassified.

Clean the rifle by removing carbon buildup and lubricating according to lubrication instructions. Make sure you remove any excessive oil from the bore before firing.

After firing ball or blank ammunition, clean the weapon one time only with CLP. Under all but the coldest arctic conditions, use only CLP to lubricate the rifle.

Upper Receiver Group.

- (1) Use small-arms swabs, CLP, and bore brush to clean bore.**
- (2) Use rags, cleaning brush, and CLP to remove powder fouling, corrosion, dirt, and rust from other areas.**
- (3) Clean bolt lugs with CLP and chamber brush.**
- (4) Use CLP and bore brush to clean barrel locking lugs and gas tube.**
- (5) Use Rifle Bore Cleaner (RBC) on a barrel brush to clean the barrel. RBC dissolves built up residue which can cause inaccuracies.**

Lower Receiver Group.

- (1) Remove powder fouling, corrosion, and dirt with rags, cleaning brush, and CLP.**
- (2) Clean buffer tube and buttstock tube with rag attached to holder.**
- (3) Clean buffer action spring and inside lower receiver extension with brush and rags.**

Bolt Carrier Group.

- (1) Clean outer and inner surfaces of bolt carrier with rags and CLP.**
- (2) Clean carrier key (use worn bore brush).**
- (3) Clean firing pin recess and firing pin with brush and CLP.**
- (4) Clean firing pin hole with pipe cleaner and CLP.**
- (5) Clean carbon deposits and dirt from locking lugs with cleaning brush and CLP.**
- (6) Clean areas behind bolt ring and under lip of extractor with brush and CLP.**

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 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 J - LSA 4. Learning Step / Activity ELO J - LSA 4. Inspect Weapon for Serviceability

Method of Instruction: Practical Exercise (Hands-On/Written)
Mode of Delivery: Resident Instruction
Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)
Time of Instruction: 15 mins
Media Type: Actual Equipment / Conference/Demonstration / Practical Exercise

Instructor Notes: The weapon should be disassembled on the mat.

Inspect the Weapon for Serviceability

Upper Receiver Group.

- (1) Check for free movement of the forward assist assembly.
- (2) Check for broken or damaged ejection port cover.
- (3) Check rear sight windage and elevation knob for damage, looseness, and adjustability.
- (4) Check carrying handle assembly for missing or damaged parts and ensure the handle assembly will mount to the upper receiver.

will mount to the upper receiver.

- (5) Check front sight assembly for damage, straightness, and adjustability.
- (6) Inspect bore and chamber for pitting or obstructions.
- (7) Inspect bolt lugs for cracks and burrs.
- (8) Check for free movement of slip ring.
- (9) Check the compensator for proper alignment.

Note: The compensator has five slots. The third or middle slot should line up with the front sight post. If not, turn in for maintenance.

- (10) Check the bolt guide rails for chips and burrs.

Lower Receiver.

(1) Check trigger mechanism for missing or damaged parts. This is a visual only inspection as you are not authorized to disassemble the trigger mechanism. Check the metal pieces for obvious cracks, nicks, or breakage. Ensure the springs are present, unbroken, and properly connected.

- (2) Check bolt catch for free movement.
- (3) Check magazine release button for free movement.
- (4) Check buttstock assembly for dents, and rust and ensure proper operation of retaining nut and lock-release lever.
- (5) Check action spring and buffer for damage.
- (6) Check pistol grip for tightness.
- (7) Check takedown pins for tightness of fit and that they do not separate from the lower receiver.

Bolt Carrier Group.

- (1) Check bolt carrier for chips, burrs, and cracks.
- (2) Check bolt for cracks or fractures, especially in the cam pin hole area. Bolts that contain pits in the firing pin hole need replacing.
- (3) Check firing pin retaining pin for bends and excessive wear.
- (4) Check firing pin for bends, cracks, and blunted or sharp end.
- (5) Check cam pin for cracks and chips.
- (6) Check extractor for chipped or broken edges in the area of the lip that engages the cartridge rim. Check to ensure the rubber insert is inside the extractor spring.
- (7) Check the serviceability of the gas rings - this can only be done after the bolt is assembled.

Check by fully extending the bolt and standing the bolt carrier group on the bolt end on a flat surface, if the weight of the bolt carrier itself is enough to slide down the bolt then the gas rings are unserviceable.

Note: Turn-in unserviceable weapons to the unit armorer and identify specific unserviceable parts.

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 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 J - LSA 5. Learning Step / Activity ELO J - LSA 5. Conduct PMCS on M4 Carbine

Method of Instruction: Discussion (Small or Large Group)

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 10 mins

Media Type: Actual Equipment / Conference/Demonstration / PowerPoint Presentation

Other Media: Unassigned

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

At this time I will demonstrate how perform maintenance using the TM, so that you will be able to correctly conduct a PMCS on your newly assigned M4 Series Rifle.

To perform PMCS on your weapon:

(1) The Item No. column lists the PMCS item number that applies to the item being inspected.

(a) When completing DA Form 5988-E or DA Form 2404, make sure that the item number is transferred to the "TM Item No." column on the form exactly as listed in the "Item No." column in the TM.

(2) The Intervals column refers to how often an item must be inspected.

(a) Before (B) checks and services must be performed prior to placing the equipment, or its components, in operation. Faults must be corrected prior to the start of the mission or recorded on the DA Form 5988-E or DA Form 2404.

(b) During (D) checks and services must be performed while the equipment and/or its components and/or systems are in operation.

(c) After (A) checks and services are performed immediately at the conclusion of the mission to identify and correct faults that will prevent the next mission and to maintain the equipment to standard.

(d) Weekly (W) checks and services are performed once every 7 days or more frequently under unusual circumstances.

(e) Monthly (M) checks and services are performed every 30 days or more frequently under unusual circumstances.

Note: Make these checks in the order listed, within the designated interval.

(3) Item To Be Inspected procedures column.

(a) Lists each item on the equipment that must be inspected.

(b) Gives the steps involved in inspecting the equipment.

(4) Equipment is not ready/available column. Any deficiencies that are listed in this column must be

repaired before the equipment can be operated. This type of deficiency is commonly called a deadline fault.

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 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 J - LSA 6. Learning Step / Activity ELO J - LSA 6. Lubricate the Weapon

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

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 10 mins

Media Type: Actual Equipment / Conference/Demonstration / Practical Exercise

Other Media: Unassigned

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

The Instructor will demonstrate how to properly lubricate the weapon system.

Lightly lube means apply a film of lubricant barely visible to the eye.

Generously lube means apply the lubricant heavily enough so that it can be spread with the finger.

Upper receiver and carrying handle.

(1) Upper receiver. Lightly lube inside of receiver, bore, chamber, locking lugs, outer surfaces of barrel and front sight, and mating surface for carrying handle.

(2) Carrying handle. Apply a drop or two of lubricant to both threaded studs. Lightly lube the clamping bar and both round nuts. Lightly lube the mating surface.

(3) Front sight detent. Depress and apply two or three drops of CLP to front sight detent. Depress several times to work lube into the spring.

(4) Adjustable rear sights. Use one or two drops of CLP. Rotate the following parts to ensure lubricant is spread evenly above and below:

- a. Elevation screw shaft
- b. Elevation knob
- c. Windage knob
- d. Windage screw

Lower receiver group.

(1) Lightly lube inside and outside lower receiver extension, buffer, and action spring. Lightly lube inside buttstock assembly. Generously lube buttstock lock-release lever and retaining pin.

(2) Generously lube takedown pin, pivot pin, detents, and all other moving parts and their pins.

Bolt carrier group.

(1) Lightly lube charging handle and inner and outer surfaces of bolt carrier.

- (2) Place one drop of CLP in the carrier key.**
- (3) Apply a light coat of CLP on firing pin and firing pin recess in bolt.**
- (4) Generously lube outside of the bolt body, bolt rings, and cam pin area.**
- (5) Apply a light coat of CLP on extractor and pin.**

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 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 J - LSA 7. Learning Step / Activity ELO J - LSA 7. Assemble the Weapon

Method of Instruction: Practical Exercise (Hands-On/Written)
 Mode of Delivery: Resident Instruction
 Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)
 Time of Instruction: 30 mins
 Media Type: Actual Equipment / Conference/Demonstration / Practical Exercise
 Other Media: Unassigned
 Security Classification: This course/lesson will present information that has a Security Classification of: U - Unclassified.

- 6. Assemble the weapon.
 - a. Assemble the bolt carrier.
 - (1) Insert the extractor and spring.
 - (2) Push in the extractor pin.
 - (3) Slide the bolt into the carrier.

DANGER: The cam pin must be installed in the bolt group. Failure to do so will cause weapon to explode when fired, causing injury or death.

- (4) Replace the bolt cam pin.
- (5) Drop in and seat the firing pin.
- (6) Pull the bolt back.
- (7) Replace the retaining pin.
- b. Engage and then push the charging handle in part of the way.
- c. Slide in the bolt carrier assembly.
- d. Push in the charging handle and the bolt carrier group together.
- e. Insert the action spring and buffer.
- f. Install the buttstock assembly. (M4 series only)
 - (1) Align the buttstock assembly with the lower receiver extension.
 - (2) Pull downward on the lock release lever near the retaining pin.
 - (3) Slide the buttstock assembly onto the lower receiver extension.

- g. Join the upper and lower receivers.
- h. Engage the receiver pivot pin.
- i. Close the upper and lower receiver groups.
- j. Push in the takedown pin.
- k. Replace the handguards.
- l. Replace the carrying handle, if applicable.
- m. Replace the sling.

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 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 J - LSA 8. Learning Step / Activity ELO J - LSA 8. Perform a Function Check on the M4-Series Carbine

Method of Instruction: Practical Exercise (Hands-On/Written)
Mode of Delivery: Resident Instruction
Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)
Time of Instruction: 10 mins
Media Type: Actual Equipment / Conference/Demonstration / Practical Exercise
Other Media: Unassigned
Security Classification: This course/lesson will present information that has a Security Classification of: U - Unclassified.

Instructor Note: The Trainee's will be talked through the functions check and they will then practice the functions check. Have demonstrator perform the function check while instructor explains each step.

The final step of maintaining the weapon is Perform a Function Check.

Stop a function check at anytime the rifle does not function properly.

Turn in a malfunctioning weapon to the unit armorer.

To Perform a Function Check:

First, check to ensure the weapon is clear and the selector lever is on SAFE. If you have not recently cleared the weapon (such as during disassembly) then clear the weapon before conducting a function check.

Once you have confirmed the weapon is clear and the selector lever is on SAFE, precede with the SAFE position checks.

Conduct SAFE Position Checks

Check an M4-Series Carbine with the selector lever in the SAFE position by:

- (1) Pull the charging handle to the rear and release it.
- (2) Place the selector lever in the SAFE position.
- (3) Pull the trigger (the hammer should not fall).

Conduct SEMI Position Checks

Check an M4-Series Carbine with the selector lever in the SEMI position.

- (1) Place the selector lever in the SEMI position.

- (2) Pull the trigger, holding it to the rear (the hammer should fall).
- (3) Continue to hold the trigger to the rear while pulling the charging handle to the rear and releasing the charging handle. (This simulates the firing of one round and cocks the hammer.)
- (4) Release the trigger with a slow, smooth motion until the trigger is fully forward (the hammer should not fall). (This resets the hammer causing a metallic clunk)
- (5) Pull the trigger (the hammer should fall).

Conduct AUTO Position Checks

Check an M4-Series Carbine with the selector lever in the AUTO position.

- (1) Place the selector switch on AUTO (M16A3 and M4A1 only).
- (2) Pull the charging handle to the rear, charging the weapon.
- (3) Squeeze the trigger.

Note: Hammer should fall.

- (4) Hold the trigger to the rear.
- (5) Cock the weapon again.
- (6) Fully release the trigger then squeeze it again.

Note: The hammer should not fall because it should have fallen when the bolt was allowed to move forward during the chambering and locking sequences.

You will now practice Performing a Function Check while your Drill Sergeant observes and corrects.

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 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).

CHECK ON LEARNING (ELO J):

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(ELO J):

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).

K. ENABLING LEARNING OBJECTIVE

ACTION:	Conduct Preventive Maintenance Checks and Services (PMCS) on an M4-Carbine.
CONDITIONS:	In a classroom environment, given an M4-Carbine; DA Form 2404; demonstration, and practical exercise on conducting Preventive Maintenance Checks and Services.
STANDARDS:	Conduct a proper PMCS on assigned M4-Carbine IAW the appropriate TM 9-1005-310-319-10.
LEARNING DOMAIN - LEVEL:	Psychomotor - Precision
No JPME LEARNING AREAS SUPPORTED:	None

ELO K - LSA 1. Learning Step / Activity ELO K - LSA 1. Preventive Maintenance Checks and Services (PMCS).

Method of Instruction: Lecture

Mode of Delivery: Resident Instruction

Instr Type (I:S Ratio): Military - NON-ICH (2:50)(DS)

Time of Instruction: 15 mins

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

Other Media: Unassigned

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

Reinforce the proper way to read a TM and follow the flow chart to conduct a good PMCS on assigned weapon system. Ensure that you cover the intervals (Before, During, and After).

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 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).

CHECK ON LEARNING (ELO K):

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

REVIEW SUMMARY(ELO K):

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).

SECTION IV. SUMMARY

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

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

During this lesson you learned the US Armys RM Training Strategy.

- (1) The 4 tenets of weapon safety and explain the 4 weapon readiness statuses (green, amber, red, black).
- (2) Identify basic weapon characteristics.
- (3) Identify the weapon parts.
- (4) The 8 types of 5.56mm ammunition by name and nomenclature.
- (5) Maintain the M4-Series Carbine, Magazine, and Ammunition.
- (6) Load and Unload an M4-Series Carbine Magazine.
- (7) Load and Unload an M4-Series Carbine.
- (8) Correct malfunctions of an M4-Series Carbine.
- (9) Preventive Maintenance Checks and Services on an M4-Series Carbine.
- (10) Identify Advanced Optics and Sights.
- (11) Zero the Boresight to a M4-Series Carbine.
- (12) Employ the M68 Close Combat Optic.

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).

SECTION V. STUDENT EVALUATION

Testing Requirements

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

Feedback Requirements

NOTE: Feedback is essential to effective learning. Schedule and provide feedback on the evaluation and any information to help answer students' questions about the test. Provide remedial training as needed.

Appendix A - Viewgraph Masters

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Sequence	Media Name	Media Type
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-BT071041 Version 5.03 ©

Appendix D - Student Handouts

**Introduction to Rifle Marksmanship (BCT RM Pd 1)
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Sequence	Media Name	Media Type
None		