



SLR.15
1 Oct 99

**UNITED STATES MARINE CORPS
WEAPONS TRAINING BATTALION
MARINE CORPS COMBAT DEVELOPMENT COMMAND
QUANTICO, VIRGINIA 22134-5040**

DETAILED INSTRUCTOR GUIDE

LESSON TITLE

36-YARD GROUPING EXERCISE

COURSE TITLE

SUSTAINMENT LEVEL RIFLE MARKSMANSHIP (PHASE I, II, III)



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Weapons Training Battalion
Marine Corps Combat Development Command
Quantico, Virginia 22134-5040

INSTRUCTOR PREPARATION CHECKLIST

ESSENTIAL DATA

LESSON DESIGNATOR	SLR.15
LESSON TITLE	36-Yard Grouping Exercise
DATE PREPARED	1 October 1999
TIME	2 hrs
METHOD	Practical application and performance evaluation
LOCATION	Indoor/outdoor classroom and outdoor range
INSTRUCTORS REQUIRED	Range Coaches as needed
REFERENCES	MCRP 3-01A
TRAINING AIDS/EQUIPMENT	Ammunition, targets, 2.5-inch (7 MOA) grouping template, and one data book per Marine



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DETAILED OUTLINE

36-YARD GROUPING EXERCISE

NOTE

This exercise may be conducted on a 30-meter range if a 36-yard range is not available.

If live fire cannot be conducted, this exercise may be conducted on the ISMT. If the exercise is conducted on the ISMT, the Marine's application of the fundamentals can be evaluated, however, the Marine's weapon cannot be tested prior to live fire training. On the ISMT, Marines must achieve a three MOA group size (2.74 centimeters).

1. TRAINING OBJECTIVE

a. Intent. This exercise requires the Marine to fire a 5-shot group within a seven minute of angle (MOA) group size.

1) This exercise is intended to ensure Marines have obtained a solid grasp of the fundamentals of marksmanship to a proficiency level high enough to continue through this training.

2) This exercise will also test the accuracy of each Marine's rifle to ensure each rifle is capable of firing at an acceptable level to allow the Marine to complete marksmanship training.

3) The objective of this exercise is to achieve a seven MOA (2.5-inch) shot group. If the shot group is not in the center of the target, the sights will be adjusted following the exercise to bring the group to center.

4) The Marine will be expected to perform remedial action, as necessary.

b. Learning Objective. The Terminal Learning Objective and Enabling Learning Objective pertaining to this exercise are as follows:



1) Terminal Learning Objective. Given an M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, ammunition, and a target, without the aid of references, fire the rifle at the sustained rate of fire, achieving a five shot group with the size not exceeding seven minutes of angle (MOA) and IAW MCRP 3-01A. (PVTX.11.3)

2) Enabling Learning Objective. Given an M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, ammunition, and a target, without the aid of references, apply the fundamentals of marksmanship while firing the rifle IAW MCRP 3-01A. (PVTX.11.3h)

2. EXERCISE PLANNING

a. Range. Ensure a 36-yard range is available for the exercise.

b. Supply List. Ensure the following supplies are obtained:

- 1) One 36-yard BZO target per Marine.
- 2) Hearing protection.
- 3) 2.5-inch grouping template.

c. Ammunition. For this exercise, 15 rounds of ammunition per Marine are required. Marines are only required to fire 5 rounds. Marines not passing the exercise are provided remedial training and two additional attempts to pass.

d. Communication. Ensure communication requirements for live fire comply with MCO P3570.1_. Communications gear or hand and arm signals among range personnel should be planned and utilized throughout the exercise.

e. Safety. Ensure safety requirements comply with MCO P3570.1_ and local SOP.

3. EXERCISE SETUP

a. Brief range personnel on exercise procedures.

b. Establish and maintain communications with range control and other range personnel.

c. Designate a location for the safety vehicle and corpsman.



SLR.15
1 Oct 99

d. Place targets at designated points on the 36-yard range. Mark the range at the firing line to ensure rifle muzzles are exactly 36 yards from the targets.



4. CONDUCT OF EXERCISE

a. Exercise Brief. The following items must be included in the brief given to Marines prior to the start of the exercise:

1) Review safety rules, commands, and weapons handling procedures and emphasize these procedures throughout the exercise.

2) Marines will fire a 5-shot string at the sustained rate within one minute on the grouping target.

3) Coaches will check each shot group and inform the Marine whether his group is within the acceptable group size. An acceptable group will not exceed 2.5 inches (seven MOA). Marines will be given two additional opportunities to achieve an acceptable shot group, if needed. However, Marines will not adjust their sights between shot groups. The purpose of the exercise is to apply the fundamentals to shoot a tight shot group; it is not a zeroing exercise.

4) Marines not achieving an acceptable shot group size in three attempts will receive remedial instruction. Remedial instruction may consist of additional classroom instruction on the fundamentals of marksmanship and/or periods of dry fire as determined by the PMI/coach.

5) Marines will plot their shot groups in their data books on the GROUPING EXERCISE page.

b. Grouping Exercise Procedures

1) Range personnel will be responsible for the overall conduct of the exercise.

INSTRUCTOR'S NOTE: *Ensure Marines' rifle muzzles are exactly 36 yards from the targets. An error at 36 yards, even in inches, greatly affects shot placement at 300 yards.*

2) On command, Marines will fire a 5-shot string at the sustained rate in a time limit of one minute.

3) Marines will be instructed to "Unload," move down range to view their targets, and plot their shot group by indicating each shot hole with a dot on the target on the GROUPING page in their data book.



- 4) Coaches will check each shot group and inform the Marine whether his group is within the acceptable group size (2.5-inches).
- 5) Once the Marine has achieved the acceptable group size, he will move off the firing line.
- 6) If a Marine is unable to fire the minimum acceptable group size in three attempts, the Marine's weapon may be test fired by range personnel to determine if the weapon is operationally capable of firing an acceptable shot group. If the weapon is judged operationally capable, the Marine will be scheduled for remedial instruction.

c. Group Analysis Exercise

INSTRUCTOR'S NOTE: Take approximately 10 minutes to conduct an exercise walking Marines through shot group analysis and sight adjustments based on Marines' 36-yard Grouping targets.

- 1) Locate your data book page from the Grouping Exercise.
- 2) Look at your target and locate the center of your shot group. Mark it with a dot.
- 3) Locate the horizontal grid line closest to the dot. Read across to the numbered vertical scale. The number on the scale is the elevation adjustment in number of clicks required on your front sight post to bring your shot group to the center of the target.
 - a) To move your shot group up, move the front sight post clockwise (in the direction of the UP arrow) the required number of clicks to bring the center of the shot group to the center of the target.
 - b) To move your shot group down, move the front sight post counterclockwise the required number of clicks to bring the center of the shot group to the center of the target.
- 4) Locate the vertical grid line closest to the dot. Follow the line down to the numbered horizontal scale. The number on the scale is the windage adjustment in number of clicks required on your rear sight windage knob to bring your shot group to the center of the target.



a) To move your shot group to the right, rotate the windage knob clockwise (in the direction of the arrow) the required number of clicks to bring the center of your shot group to the center of the target.

b) To move your shot group to the left, rotate the windage knob counterclockwise the required number of clicks to bring the center of your shot group to the center of the target.

5) Record this sight setting in the ADJUSTED SIGHT SETTINGS portion of your data book on the Grouping page.

5. AFTER EXERCISE PROCEDURES

Upon completion of the exercise, Marines will be critiqued on their performance. The following area can be addressed when critiquing Marines:

Application of the fundamentals of marksmanship (aiming, breath control, and trigger control).

6. EXERCISE EVALUATION

Marines must obtain a 5-shot group within the 2.5-inch circle (seven MOA) at 36 yards to pass this exercise. Marines who fail this exercise must receive remedial instruction before proceeding through the remainder of the training.



SLR.15-PC
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PERFORMANCE CHECKLIST

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PERFORMANCE TEST ITEM

TERMINAL LEARNING OBJECTIVE. Given an M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, ammunition, and a target, without the aid of references, fire the rifle at the sustained rate of fire, achieving a five shot group with the size not exceeding seven minutes of angle (MOA) and IAW
MCRP 3-01A. (PVTX.11.3)

ENABLING LEARNING OBJECTIVE. Given an M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, ammunition, and a target, without the aid of references, apply the fundamentals of marksmanship while firing the rifle IAW
MCRP 3-01A. (PVTX.11.3h)

TEST ITEM

1. INSTRUCTIONS TO THE EVALUATOR:

- a. Ensure the Marine has the M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, and ammunition.
- b. Inform the Marine there is a time limit of one minute for firing a 5-shot group during this evaluation.
- c. Tell the Marine to begin.
- d. Evaluate the Marine via the performance checklist.

2. INSTRUCTIONS TO THE MARINE: When the coach says "Begin," you will be given time to obtain your firing position and establish a natural point of aim before continuing with the grouping exercise. Observe the four safety rules at all times.

3. PERFORMANCE CHECKLIST:

PASS FAIL

Fired a 5-shot group not exceeding 2.5 inches (seven MOA).
