



SLR.29A
1 Oct 99

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

DETAILED INSTRUCTOR GUIDE

LESSON TITLE

UNKNOWN DISTANCE FIRING EXERCISE

COURSE TITLE

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



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UNITED STATES MARINE CORPS
Weapons Training Battalion
Marine Corps Combat Development Command
Quantico, Virginia 22134-5040

INSTRUCTOR PREPARATION CHECKLIST

ESSENTIAL DATA

LESSON DESIGNATOR	SLR.29A
LESSON TITLE	Unknown Distance Firing Exercise
DATE PREPARED	1 October 1999
TIME	3 hrs
METHOD	Practical application and perform:
LOCATION	Outdoor range
INSTRUCTORS REQUIRED	Range Coaches as needed
REFERENCES	MCRP 3-01A, MCO 3574.2_, and MCO P3570.1_
TRAINING AIDS/EQUIPMENT	Ammunition, targets, and cover materials



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DETAILED OUTLINE

UNKNOWN DISTANCE FIRING EXERCISE

1. TRAINING OBJECTIVES

a. Intent. This exercise will evaluate the Marine's ability to estimate the distance to a target by visual methods. It will also evaluate the Marine's ability to take cover, reload the rifle, and apply a hasty sight setting to engage targets at various distances. The Marine will be expected to perform remedial action as necessary.

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

1) Terminal Learning Objective. Given an M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, flak jacket, helmet, suspenders, ammunition, and targets, without the aid of references, engage targets at unknown distances with the rifle IAW MCRP 3-01A and to achieve a proficiency level IAW MCO 3574.2_. (PVTX.11.11)

2) Enabling Learning Objectives

a) Given a target, without the aid of references, estimate range to the target IAW MCRP 3-01A. (PVTX.11.11b)

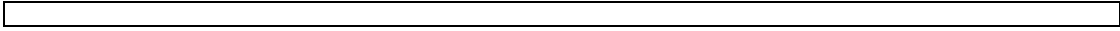
b) Given an M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, flak jacket, helmet, suspenders, ammunition, and targets, without the aid of references, apply a hasty sight setting IAW MCRP 3-01A. (PVTX.11.11c)

c) Given an M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, flak jacket, helmet, suspenders, ammunition, and targets, without the aid of references, take cover IAW MCRP 3-01A. (PVTX.11.11d)

INSTRUCTOR'S NOTE: A load-bearing vest may be substituted for magazine pouches and suspenders. Gear will be worn in accordance with the MBST Handbook.



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2. EXERCISE PLANNING

- a. Range. Ensure an unknown distance range with 500-yard capability is available for this exercise. Terrain will dictate the exact placement of the targets.
- b. Supply List. Ensure the following supplies are obtained:
 - 1) 12 targets per Marine.
 - 2) Hearing protection.
 - 3) Cover materials to simulate: rooftop, window, rubble pile, and bunker aperture.
- c. Ammunition. For this exercise, 16 rounds of ammunition per Marine are required.
- 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.
- f. Practice. Marines will be given one dry fire/simulation drill for practice prior to evaluation.

3. EXERCISE SETUP

- a. Brief range personnel on the course of fire.
- b. Establish and maintain communications with range control and with other range personnel as required by the range SOP.
- c. Designate a location for the safety vehicle and corpsman.
- d. Place targets and cover materials on the range in accordance with the course of fire.

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) Review procedures for performing remedial action.
- 3) Coaches will provide immediate feedback to Marines on their performance.
- 4) Marines will have two minutes to fire each stage and move to the next stage.
- 5) Targets will appear at ranges between 150 and 500 yards in all stages.
- 6) Marines will reload their rifles once during the course of fire.
- 7) Marines will use cover at each stage of fire.
- 8) When moving from cover to cover, the weapon will be in Condition 1 and the Marine will have a straight trigger finger.

b. Exercise Procedures for Drill #1 (Dry Fire/Simulation). For this practice exercise, Marines will dry fire 16 shots to engage 12 targets in an overall time limit of eight minutes.

INSTRUCTOR'S NOTE: *No ammunition will be on the firing line during dry fire. Empty magazines or magazines with the followers removed to facilitate dry firing will be loaded into the rifle for this drill.*

Drill #1: 16 Rounds, 12 Targets, 8 Minutes

<u>Time Limit</u>	<u># of Targets</u>	<u>Manner Fired</u>
Stage One:	Sequence-	300, 400, 200
2 min	3	Rooftop
Stage Two:	Sequence-	300, 350, 200
2 min	3	Window
Stage Three:	Sequence-	500, 300, 150



2 min	3	Rubble Pile
<u>Stage Four: Sequence- 350, 250, 300</u>		
2 min	3	Bunker Aperture

1) Stage One. On command, Marines will assume the Tactical Carry, load their rifles with an empty magazine, make ready, and assume the Alert. When the targets appear, assume a rooftop supported position and commence dry firing. Marines will have two minutes to complete this stage.



INSTRUCTOR'S NOTE: *The targets will appear at the following ranges in the following sequence:
1) 300 yards, 2) 400 yards, 3) 200 yards.*

2) Stage Two. On command, Marines will have 10 seconds to proceed to lane 2 and assume a window supported position. Dry firing will commence when the targets appear. Marines will have two minutes to complete this stage.

INSTRUCTOR'S NOTE: *The targets will appear at the following ranges in the following sequence:
1) 300 yards, 2) 350 yards, 3) 200 yards.*

3) Stage Three. On command, Marines will have 10 seconds to proceed to lane 3 and assume a rubble pile supported position. Dry firing will commence when the targets appear. Marines will have two minutes to complete this stage.

INSTRUCTOR'S NOTE: *The targets will appear at the following ranges in the following sequence:
1) 500 yards, 2) 300 yards, 3) 150 yards.*

4) Stage Four. On command, Marines will have 10 seconds to proceed to lane 4 and assume a bunker aperture supported position. Dry firing will commence when the targets appear. Marines will have two minutes to complete this stage. Upon completion of this stage of dry fire, Marines will be directed to place their weapons in Condition 4 and prepare for the next drill.

INSTRUCTOR'S NOTE: *The targets will appear at the following ranges in the following sequence:
1) 350 yards, 2) 250 yards, 3) 300 yards.*

c. Exercise Procedures for Drill #2 (Live Fire Evaluation). On the ready line, Marines will fill two magazines with 8 rounds each. Marines will have 16 rounds to engage 12 targets in an overall time limit of eight minutes.



Drill #2: 16 Rounds, 12 Targets, 8 Minutes

Time Limit # of Targets Manner Fired

Stage One: Sequence- 300, 400, 200

2 min 3 Rooftop

Stage Two: Sequence- 300, 350, 200

2 min 3 Window

Stage Three: Sequence- 500, 300, 150

2 min 3 Rubble Pile

Stage Four: Sequence- 350, 250, 300

2 min 3 Bunker Aperture

1) Stage One. On command, Marines will assume the Tactical Carry, load, make ready, and assume the Alert. When the targets appear, assume a rooftop supported position, and commence firing. Marines will have two minutes to complete this stage.

INSTRUCTOR'S NOTE: *The targets will appear at the following ranges in the following sequence:
1) 300 yards, 2) 400 yards, 3) 200 yards.*

2) Stage Two. On command, Marines will have 10 seconds to proceed to lane 2 and assume a window supported position. Firing will commence when the targets appear. Marines will have two minutes to complete this stage.

INSTRUCTOR'S NOTE: *The targets will appear at the following ranges in the following sequence:
1) 300 yards, 2) 350 yards, 3) 200 yards.*

3) Stage Three. On command, Marines will have 10



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seconds to proceed to lane 3 and assume a rubble pile supported position. Firing will commence when the targets appear. Marines will have two minutes to complete this stage.

INSTRUCTOR'S NOTE: *The targets will appear at the following ranges in the following sequence:*
1) 500 yards, 2) 300 yards, 3) 150 yards.



4) Stage Four. On command, Marines will have 10 seconds to proceed to lane 4 and assume a bunker aperture supported position. Firing will commence when the targets appear. Marines will have two minutes to complete this stage. When all targets are down or all rounds are expended, Marines will be directed to unload, show clear, and move off the firing line.

INSTRUCTOR'S NOTE: *The targets will appear at the following ranges in the following sequence:
1) 350 yards, 2) 250 yards, 3) 300 yards.*

5. AFTER EXERCISE PROCEDURES

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

- a. Assuming a field firing position.
- b. Use of cover.
- c. Estimating range to the target.
- d. Applying a hasty sight setting to engage targets.
- e. Reloading the rifle.
- f. Compensating for the effects of weather.

6. EXERCISE EVALUATION

Marines must obtain a minimum score of 6 hits out of 12 exposures (16 rounds) in accordance with MCO 3574.2_.



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PERFORMANCE CHECKLIST

LESSON TITLE

UNKNOWN DISTANCE FIRING EXERCISE

COURSE TITLE

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



PERFORMANCE TEST ITEM

TERMINAL LEARNING OBJECTIVE. Given an M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, flak jacket, helmet, suspenders, ammunition, and targets, without the aid of references, engage targets at unknown distances with the rifle IAW MCRP 3-01A and to achieve a proficiency level IAW MCO 3574.2_. (PVTX.11.11)

ENABLING LEARNING OBJECTIVES.

- a. Given a target, without the aid of references, estimate range to the target IAW MCRP 3-01A. (PVTX.11.11b)
- b. Given an M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, flak jacket, helmet, suspenders, ammunition, and targets, without the aid of references, apply a hasty sight setting IAW MCRP 3-01A. (PVTX.11.11c)
- c. Given an M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, flak jacket, helmet, suspenders, ammunition, and targets, without the aid of references, take cover IAW MCRP 3-01A. (PVTX.11.11d)

TEST ITEM

1. INSTRUCTIONS TO THE EVALUATOR:

- a. Ensure the Marine has the M16A2 service rifle, sling, cartridge belt, magazines, magazine pouches, flak jacket, helmet, suspenders, and ammunition.

<p><i>INSTRUCTOR'S NOTE:</i> A load-bearing vest may be substituted for magazine pouches and suspenders. Gear will be worn in accordance with the MBST Handbook.</p>

- b. Inform the Marine there is a time limit of two minutes for each stage of fire during this evaluation.
- c. Tell the Marine to begin.
- d. Evaluate the Marine via the performance checklist.

2. INSTRUCTIONS TO THE MARINE: When the Tower says "Begin," assume a rooftop supported position at lane 1. Observe the four safety rules at all times.



- | 3. PERFORMANCE CHECKLIST: | <u>PASS</u> | <u>FAIL</u> |
|--|-------------|-------------|
| a. Estimated range to target. | _____ | _____ |
| b. Applied a hasty sight setting. | _____ | _____ |
| c. Took cover. | _____ | _____ |
| d. Engaged targets at unknown distances from field firing positions. | _____ | _____ |



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RANGE COMMANDS

LESSON TITLE

UNKNOWN DISTANCE FIRING EXERCISE

COURSE TITLE

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



UNKNOWN DISTANCE FIRING EXERCISE

RANGE COMMANDS

1. Drill #1 (Dry Fire/Simulation)

"Relay ____ move to the ready line and prepare a hasty sling."

"Relay ____ move to the starting point and prepare to move to the first field firing position. Assume the Tactical Carry."

"This unknown distance dry firing drill will consist of four stages, each allowing one minute and 50 seconds for dry firing and 10 seconds movement time between stages. The drill has a total time limit of eight minutes. You will dry fire 3 shots in each stage from a different field firing position: rooftop, window, rubble pile, and bunker aperture. There will be three targets per stage at unknown distances between 50 and 500 yards."

"On the firing line, with an empty magazine, load, **(Pause)** make ready."

"When the targets appear, move to the first field firing position and commence dry firing."

"When all targets are down, move quickly to the next lane and assume that field firing position. Commence dry firing when the targets appear."

"Cease fire. **(Pause)** Unload."

"Relay ____ move off the firing line."

2. Drill #2 (Live Fire Evaluation)

"Relay ____ move to the ready line and prepare a hasty sling. **(Pause)** Fill two magazines with 8 rounds each."

"Relay ____ move to the starting point and prepare to move to the first field firing position. Assume the Tactical Carry."

"This unknown distance firing drill will consist of four stages, each allowing one minute and 50 seconds for firing and 10 seconds movement time between stages. The drill has a total time limit of eight minutes. You will fire each stage from a different field firing position: rooftop, window, rubble pile, and bunker aperture. There will be three targets per stage at unknown distances between 50 and 500 yards. You have a total of 16 rounds to engage 12 targets and will reload once at your own discretion."



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"On the firing line, with a magazine of 8 rounds, load,
(Pause) make ready. **(Pause)** Assume the Tactical Carry."

"When the targets appear, move to the first field firing
position and commence firing."

"When all targets are down, move quickly to the next lane
and assume that field firing position. Commence firing
when the targets appear."

"Cease fire. **(Pause)** Unload, show clear."

"Relay ____ move off the firing line."