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

DETAILED INSTRUCTOR GUIDE

LESSON TITLE

LOW-LIGHT/DARKNESS ENGAGEMENT 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.24A
LESSON TITLE	Low-Light/Darkness Engagement Exercise
DATE PREPARED	1 October 1999
TIME	2 hours
METHOD	Practical application and performance evaluation
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, illumination devices, and ISMT (if available)



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DETAILED OUTLINE

LOW-LIGHT/DARKNESS ENGAGEMENT EXERCISE

INSTRUCTOR'S NOTE: *The practice portion of this practical application may be conducted via dry fire, ISMT, or both.*

1. TRAINING OBJECTIVE

a. Intent. This exercise will evaluate the Marine's ability to engage targets accurately in low light (without illumination) and in darkness (with illumination). It will also evaluate the Marine's ability to maintain night vision and detect targets using low-light and darkness observation skills. Marines will be expected to perform remedial action as necessary.

b. Learning Objectives. The Terminal Learning Objective and Enabling Learning Objective 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, a target, and artificial illumination, during periods of low light and darkness, without the aid of references, engage targets in low light (without illumination) and in darkness (with illumination) IAW MCRP 3-01A and to achieve a proficiency level IAW MCO 3574.2_. (PVTX.11.7)

2) Enabling Learning Objective. Given targets, during periods of low light and darkness, without the aid of references, employ low-light and darkness observation skills to detect targets IAW MCRP 3-01A. (PVTX.11.7c)

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.*



2. EXERCISE PLANNING

a. Range. Ensure a known distance range with 100-yard capability is available for the exercise. If a 100-yard firing line is not available, this exercise should be fired at the 200-yard line.

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

- 1) One "E" silhouette target per Marine.
- 2) Black pasters.
- 3) 5" spotters.
- 4) Illumination devices.
- 5) Hearing protection.

c. Ammunition. For this exercise, 30 rounds of ammunition per Marine are required. Allocation for illumination rounds in support of SLR training currently resides with KD ranges. Units may coordinate with local ranges to procure illumination.

d. Communication. Ensure communication requirements for live fire comply with MCO P3570.1_. Communications gear 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 the evaluation.

3. EXERCISE SETUP

a. Brief range personnel on the course of fire.

b. Establish and maintain communications with range control and other range personnel as required by the range SOP.

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

d. Prepare pits to support live fire activities.



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) Range coaches will provide immediate feedback to Marines on their performance.
- 4) In Drill #2, when all rounds are expended (except at the end of the drill) the Marine will conduct a dry reload, placing the weapon in Condition 1.
- 5) When given the command "Make Ready," the Marine will automatically assume the Alert.
- 6) When the target appears, the Marine will present the rifle and fire the designated number of rounds on the target.

b. Exercise Procedures for Drill #1 (Dry Fire/Simulation). On the ready line, Marines will prepare a hasty sling.

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.



<u>Drill #1</u>				
<u>Distance</u>	<u>Target</u>	<u>Time Limit</u>	<u># of Dry Fire</u>	<u>Manner Fired</u>
<u>Stage One</u>				
100 yds	"E"	N/A	2	Standing
100 yds	"E"	N/A	2	Standing to Kneeling
100 yds	"E"	N/A	2	Standing to Prone
100 yds	"E"	N/A	4	2 Standing to
Kneeling/ <u>Stage Two</u>				2 Prone
100 yds	"E"	N/A	10	Standing to Prone (Ground
Illumination) 100 yds	"E"	N/A	10	Standing to Prone (Air Illumination)



1) Stage One. This stage of dry fire/simulation will be conducted from the 100-yard line on the "E" target. On command, Marines will assume the Tactical Carry, load their rifles with an empty magazine, make ready, and assume the Alert. When the target appears, Marines will present their rifles as directed and dry fire the designated number of shots on target.

INSTRUCTOR'S NOTE: *Marines should search and assess after each target engagement, moving from the prone to the kneeling, then to the standing position; then assume the Alert. Remind Marines of this procedure if they do not perform it.*

- a) Dry fire 2 shots standing.
- b) Dry fire 2 shots standing to kneeling.
- c) Dry fire 2 shots standing to prone.
- d) Dry fire 2 shots standing to kneeling, then 2 shots prone.
- e) Marines will be directed to place their weapons in Condition 4.

2) Stage Two. This stage of dry fire/simulation will be conducted from the 100-yard line on the "E" target. On command, Marines will assume the Tactical Carry, load their rifles with an empty magazine, make ready, and assume the Alert. When the target appears, Marines will present their rifles as directed and dry fire the designated number of shots on target.

INSTRUCTOR'S NOTE: *Marines should search and assess after each target engagement, moving from the prone to the kneeling, then to the standing position; then assume the Alert. Remind Marines of this procedure if they do not perform it.*

- a) Dry fire 10 shots standing to prone. Ground illumination will be used for this string of fire.
- b) Dry fire 10 shots standing to prone. Air illumination will be used for this string of fire.
- c) Marines will be directed to place their weapons in Condition 4 and prepare for the next



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drill.



c. Exercise Procedures for Drill #2 (Live Fire Evaluation). On the ready line, Marines will fill three magazines with 10 rounds each.

INSTRUCTOR'S NOTE: *Stage Two is the low-light stage of fire. The order of the two stages may be switched based on when the training will be conducted, lighting, or range operations.*

<u>Drill #2</u>					
<u>Distance</u>	<u>Target</u>	<u>Time Limit</u>	<u># of Live Fire</u>	<u>Manner Fired</u>	
<u>Stage One</u>					
100 yds	"E"	N/A	10	Standing to Prone (Ground Illumination)	
100 yds	"E"	N/A	10	Standing to Prone (Air Illumination)	
<u>Stage Two</u>					
100 yds	"E"	N/A	2	Standing	
100 yds	"E"	N/A	2	Standing to	
Kneeling					
100 yds	"E"	N/A	2	Standing to Prone	
100 yds	"E"	N/A	4	2 Standing to	
Kneeling/				2 Prone	

1) Stage One. This stage of fire will be conducted from the 100-yard line on the "E" target. On command, Marines will assume the Tactical Carry, load their rifles with a magazine of 10 rounds, make ready, and assume the Alert. When the target appears, Marines will present their rifles as directed and fire the designated number of shots on target. When all rounds are expended, the Marine will reload before searching and assessing.

INSTRUCTOR'S NOTE: *Marines should search and assess after each target engagement, moving from the prone to the kneeling, then to the standing position; then assume the Alert. Remind Marines of this procedure if they do not perform it.*

a) Fire 10 shots standing to prone. Ground illumination will be used for this string of fire.



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b) Fire 10 shots standing to prone. Air illumination will be used for this string of fire.



2) Stage Two. This stage of fire will be conducted from the 100-yard line on the "E" target. When the target appears, Marines will present their rifles as directed and fire the designated number of shots on target. When all rounds are expended, the Marine will unload and show clear. The Marine will not search and assess with an empty rifle.

INSTRUCTOR'S NOTE: *Marines should search and assess after each target engagement, moving from the prone to the kneeling, then to the standing position; then assume the Alert. Remind Marines of this procedure if they do not perform it.*

- a) Fire 2 shots standing.
- b) Fire 2 shots standing to kneeling.
- c) Fire 2 shots standing to prone.
- d) Fire 2 shots standing to kneeling, then 2 shots prone.
- e) Marines will be directed to unload and show clear.

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. Maintaining night vision.
- b. Employment of low-light and darkness engagement techniques.

6. EXERCISE EVALUATION

Marines must achieve a minimum score of 15 hits out of 30 rounds in accordance with MCO 3574.2_.



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PERFORMANCE CHECKLIST

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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, a target, and artificial illumination, during periods of low light and darkness, without the aid of references, engage targets in low light (without illumination) and in darkness (with illumination) IAW MCRP 3-01A and to achieve a proficiency level IAW MCO 3574.2_. (PVTX.11.7)

ENABLING LEARNING OBJECTIVE. Given targets, during periods of low light and darkness, without the aid of references, employ low-light and darkness observation skills to detect targets IAW MCRP 3-01A. (PVTX.11.7c)

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.

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.

- b. Ensure illumination devices are in place and ready for use.
- c. Inform the Marine that there is no time limit for this evaluation.
- d. Tell the Marine to begin.
- e. Evaluate the Marine via the performance checklist.

2. INSTRUCTIONS TO THE MARINE: When the Tower says "Begin," load your rifle, make ready, and assume the Alert. Observe the four safety rules at all times.



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3. PERFORMANCE CHECKLIST:

PASS FAIL

a. Employed low-light and darkness observation skills to detect targets.

b. Engaged targets during low light (without illumination) and during darkness (with illumination).



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RANGE COMMANDS

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LOW-LIGHT/DARKNESS ENGAGEMENT EXERCISE

RANGE COMMANDS

1. Drill #1 (Dry Fire/Simulation)

"Relay ____ move to the 100-yard ready line and prepare a hasty sling."

"Relay ____ move to the 100-yard firing line and cover down on your assigned target. (Pause) Assume the Tactical Carry."

"With an empty magazine, load, (Pause) make ready."

"When your "E" target appears, dry fire 1 shot standing."

"When your "E" target appears, dry fire 1 shot kneeling."

"When your "E" target appears, dry fire 1 shot prone."

"When your "E" target appears, dry fire 1 shot kneeling then cock the rifle and dry fire 1 shot prone."

"Cease fire. (Pause) Unload."

2. Drill #2 (Live Fire Evaluation)

"Relay ____ move to the 100-yard ready line and prepare a hasty sling. (Pause) Fill three magazines with 10 rounds each."

"Relay ____ move to the 100-yard firing line and cover down on your assigned target. (Pause) Assume the Tactical Carry."

"With a magazine of 10 rounds, load, (Pause) make ready."

"When your "E" target is illuminated, fire 10 shots prone. Then reload with a magazine of 10 rounds."

"When your "E" target is illuminated, fire 10 shots prone. Then reload with a magazine of 10 rounds."

"When your "E" target appears, fire 2 shots standing."

"When your "E" target appears, fire 2 shots kneeling."

"When your "E" target appears, fire 2 shots prone."

"When your "E" target appears, fire 2 shots kneeling then 2 shots prone."

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

"Relay ____ move off the firing line."



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