

United States Marine Corps

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STUDENT OUTLINE

MK 153 SMAW TARGET ENGAGEMENT TECHNIQUES USING NIGHT VISION SIGHTS

TERMINAL LEARNING OBJECTIVES

1. Given a bore sighted SL-3 complete MK153 SMAW, AN/PVS 17C a magazine of spotting rounds, and a target within effective range, while wearing a fighting load, field expedient zero a MK153 shoulder multi purpose assault weapon using an A AN/PVS 17C, by achieving point of aim point of impact. (51tr.01.12)
2. Given an SL-3 complete MK153 SMAW, loaded with an encased rocket and mounted with an AN/PVS 17C, a magazine of spotting rounds, and a target within effective range, while wearing a fighting load, engage targets with the shoulder multi purpose assault weapon using an AN/PVS 17C, by achieving a hit on target. (51tr.01.12)

ENABLING LEARNING OBJECTIVES

1. Given a SL-3 complete MK153 SMAW and a SL-3 complete AN/PVS-17c night vision sight, while wearing a fighting load, mount an AN/PVS-17c night vision sight to an MK153 SMAW in accordance with TM 10769-12&p. (51tr.01.11a)
2. Given a SL-3 complete MK153 SMAW and an AN/PVS-17c night vision sight, while wearing a fighting load, operate an AN/PVS-17c night vision sight in accordance with TM 10769-12&p. (51tr.01.11a)
3. Given a SL-3 complete MK153 SMAW and an AN/PVS-17c night vision sight, while wearing a fighting load, acquire a target with an ANPVS 17c by achieving a hit on target with the spotting rifle. (51tr.01.11a)

ZEROING THE AN/PVS-17C MINIATURE NIGHT SIGHT:

1. Select a target at 25M.
2. Assume a good kneeling position.
3. Fire a few rounds to seat the MNS then retighten the knob.

4. Fire three rounds maintaining the same point of aim for each shot.
5. Adjust the windage and elevation controls to adjust the reticule to the point of aim.
6. Repeat this process until a three round group is centered on the point of aim.
7. Once a shot group is centered on the point of aim, rotate the elevation control clockwise four (4) clicks to set the zero at 300M.
8. Confirm the zero by engaging a target at 300M.

ENGAGING TARGETS WITH THE AN/PVS-17C:

The following steps are used when engaging targets with the AN/PVS-17C attached to the SMAW:

1. Remove the telescopic sight by rotating the captivated thumbscrew counter-clockwise.
2. Mount the AN/PVS-17C, by rotating the captivated thumbscrew clockwise. Remove the daylight cover and store.
3. Turn on the AN/PVS-17C and adjust the reticule brightness. Select a firing site clear of obstructions and with a clear back blast area.
4. Assume a firing position and acquire a target using the AN/PVS-17C reticule dot. Ensure the outer drum is set on HE.
5. Adjust focus ring on the AN/PVS-17C for best clarity.
6. Estimate range to target and set the estimated range on the inner drum. Place weapon on the "fire" position.
7. The AN/PVS-17C reticule is aimed at the target using the red dot. The target should be placed so that it is in the center. You must then fire your spotting rounds until you are on target. If you are not on target with your initial spotting rounds, you must adjust the horizontal and vertical adjustment knobs, until your spotting rounds hit the target.
8. Fire spotting rounds at the target by squeezing the trigger without depressing the launch lever.
9. Observe tracer impact in relation to the sight reticule and adjust aiming point on target by moving the weapon.
10. Repeat steps 8 and 9 until spotting rounds impact center mass of target.
11. Clear the back blast area by physically observing the area behind the launcher and sounding off with "Back blast area all secure, rocket".
12. Depress the launch lever and squeeze the trigger to fire the rocket.
13. Place the weapon on the SAFE position. Remove the magazine by pressing magazine release and pulling Downward.
14. Pull cocking handle to the rear. Observe the chamber for brass and ammunition and release the cocking handle.
15. Rotate the rocket counter clockwise and remove rocket encasement.

REFERENCES: MARINE CORPS TM10471A-12&P/1A; TM 08673A-10/1 Operator's Manual for Launcher Assault Rocket, 83mm, (SMAW) MK153 MOD 0, page 2-22; TM 10796-12&P, Operators Manual for Night Vision Sight, Individual Served Weapon AN/PVS, pages 1-6 through 1-12, and 2-34 through 2-36.